

Spring 2004

new trail

The University of Alberta Alumni Magazine

The Storytellers

Chipewyan Elders Pass
on Traditional Knowledge

Mixed Chorus Turns 60

Planned Giving

Environmental News Insert

*there's nothing quite
like being there...*

Ukraine: Cradle of Slavic Culture

May 7-21, 2004

Visit the birthplace of Slavic culture with U of A history professor David Marples. We'll travel through the mountains on the west, across the vast central plains, and on to the beautiful Crimean peninsula as Dr Marples unravels the tumultuous history of Ukraine's fascinating past. From \$4,280 per person + air*

China: Beyond the Great Wall

September 10-26, 2004



See China in a different light with U of A professor Larry Wang, co-founder of the Ecological Conservation

Outreach Fund, which is involved in several projects in China. In addition to the tourist highlights, Dr Wang will take us to U of A ECO Fund projects and fascinating places off the beaten tourist track.

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Bhutan: Land of the Thunder Dragon

September 18-30, 2004

Bhutan is a tiny Himalayan Kingdom known to few outsiders. One of these is retired U of A professor A.K. Hellum, who was a forestry consultant there in 1988. Now that Bhutan is opening its doors to a slightly increased number of tourists, join Dr. Hellum on his return visit to a land



where growth is measured in terms of "gross national happiness."

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Learning on Location

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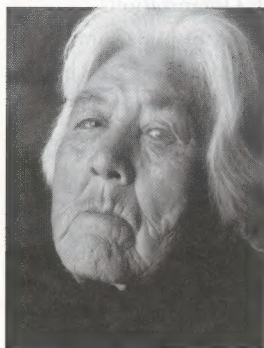
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features



Cover image: Victoria Flett is one of the Athabasca Chipewyan elders who shared her stories. (George Webber Photography)

10 The Storytellers

Photographer George Webber, '73 BA, captured striking images of Athabasca Chipewyan elders for *Footprints on the Land*, a book by the Athabasca Chipewyan First Nation about their traditional knowledge.

16 Here's to Song

After 60 glorious years, the Mixed Chorus and its alumni are tighter than ever, selling out the Winspear Centre for a celebration event.

20 Remembering her mathematical roots

As her first alma mater, the U of A benefitted from a bequest by mathematician Josephine Mitchell, '34 BSc.

23 Environmental News

Students write about their environmental research projects in this special insert from the Environmental Research and Studies Centre.

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HERE'S HOW TO REACH US ...

Comments, suggestions, story ideas—*New Trail* welcomes them all. Our reader response line is ready to take your calls, so leave us a message at **492-1702**. *New Trail* also welcomes letters to the editor. If you would like to comment on any of the stories that appear in the magazine, please write us at *New Trail*, 6th Floor, General Services Building, University of Alberta, Edmonton, Alberta, T6G 2H1

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On the Move? To keep receiving *New Trail* call **492-3471** or **1-866-492-7516**, toll-free in North America, or e-mail your address changes to alumrec@ualberta.ca.

BASECAMP



I hope you take the time to read some of the research stories in *Environmental News*, the insert that appears in

this issue of *New Trail*.

Published two or three times a year by the U of A's Environmental Research and Studies Centre (ERSC), this newsletter contains articles written by students about their own environmental research projects.

Created in 1990 to act as a coordination and information agency for the extensive environmental research and studies programs at the University of Alberta, the ERSC's mission is to promote interdisciplinary, inter-university, and international environmental research.

One of the goals of the ERSC is to ensure that every graduating student has an increased understanding of issues related to the environment and sustainable development. It is with this goal in mind that the editor of *Environmental News* makes sure the articles are written in a news reporting style that makes them accessible to non-scientists.

Avoiding the typically drier writing style of a scientific journal, however, doesn't mean the information is any less credible. Another important goal of the ERSC is to provide scientifically-based, bias-balanced information, and all the articles are reviewed by the ERSC Editorial Board, which is composed of University faculty members.

I must confess a certain fondness for the subject matter of *Environmental News*, because my first degree was in biology, but I feel confident that many of you will find it informative and interesting.

A publication like *Environmental News* is an example of some of the wonderful efforts underway at the University of Alberta to make sure we can all learn from the research being done here. A more informed world is a better world.

Roland Lines
Editor, *New Trail*

new trail

Spring 2004

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LETTERS TO THE EDITOR

Inspired by Janz's determination

I finished reading the autumn
2003 *New Trail*, and I just
had to e-mail about Heidi
Janz. After reading the article
about her, I was amazed at
how much courage and
strength one woman could
have. She truly inspired me
with her determination.

Ellen Bélanger, '00 BA
Morinville, Alberta
14 December 2003

The importance of chance

I particularly enjoyed the
current winter issue. It
recalled (to me, at least)
the importance or fate,
or luck, in one's future
career.

Part of my RCAF dis-
charge at the end of World
War II was a discussion of
my future with a depart-
ment of veteran's affairs
advisor. By chance, my advi-
sor was a gentleman, Mr.
Ernest Shortliff, with whom I
had attended high school.
Ernest could not enlist during
the war because of a physical
deformity but he did attend
the U of A.

During one's military career
they accumulated credits,
especially for overseas partici-
pation, which on release to
civilian life, one could accept
as cash, or towards the pur-
chase of property, or for edu-
cation. Ernest informed me
that I had enough credits for
eight years of university.

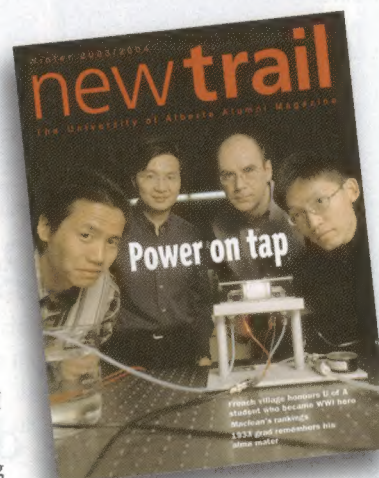
I laughed and reminded him
that I finished high school six
years previously. Anyway,
Ernest talked me into trying
and eventually, though the
influence of Professor E. H.
Strickland, I became an ento-

mologist specializing in per-
sonnel protection. I worked in
several countries, including
tropical Africa, and although I
didn't make a lot of money I
had a most rewarding career,
the latter part with the World
Health Organization.

My point in this summary
is to try to indicate the impor-
tance of chance, at least in my
case, in influencing a person's
entire future.

Keep up the good work.

Ian S. Lindsay,
'49 BSc, '51 MSc
North Saanich, B.C.
January 2004



Turning inventions into real devices

I was delighted to see "Power
on Tap" as *New Trail*'s win-
ter 2003/04 cover story, as I
have been working with the
inventors on behalf of the
University on the patenting
and commercialization of
their invention. I have been
following the media coverage
with interest.

Claire Leighton-Morris,
'95 BSc, '00 MBA
Technology Transfer Officer
Research Services Office
University of Alberta
12 January 2004

Making mom proud

Happy New Year and thanks for the copies of *New Trail*. Many people contacted me over the holidays to say they'd seen the article about me in *New Trail*. And you've made my mother very happy—a new item for her “brag book”!

I am slightly embarrassed about the whole thing (I'm not curing cancer, after all!), but it is really nice to be recognized by *New Trail* as I spent some of the most memorable years of my career working there with Rick [Pilger].

Keep up the good work, and thanks again!

Charlene Rooke, '91 BA
Montreal, Quebec
6 January 2004

Rating the Maclean's rankings

I just wanted to comment briefly on the article about the Maclean's university rankings in the new issue of *New Trail*. I was very pleased to see the article, and especially thankful for its clear perspective on how the rankings disadvantage Alberta students.

I am a graduate of the U of A's Honours English BA program, and have subsequently attended Dalhousie, King's College London, and the University of Toronto for graduate study. I can say without any doubt that these latter three universities pale sadly in comparison with the experience I had at U of A.

I find it comical every year to see U of T crown the rankings: my students here are strikingly unsophisticated in comparison with those I encounter from other schools, student services are poor, faculty are treated like chattel, and, frankly, the esteemed Robarts Library is in sorry shape, badly underfunded and littered with books that are damaged, misshelved or just plain missing. It's a shame the Maclean's survey has never managed to take an unbiased look at the state of Canada's universities: millions of potential undergrads would be far better off if they would.

Kim Solga, '96 BA
Toronto, Ontario
6 January 2004

We would like to hear your comments about the magazine. Send us your letters via postal mail or e-mail to the address on the previous page. The letters may be edited for length or clarity.

Correction: The caption to the photograph on page 2 of the last issue of *New Trail* implied that the photograph showed all the Kappa Alpha Theta members who graduated in 1952. In fact, five other 1952 graduates were not pictured. They are **Pat Coneybeare (Bice)**, '52 BSc, **Dorothy Crowie (Griffiths)**, '51 Dip(Nu), '52 BSc(Nu), **Lois Strunz (Lane)**, '52 BSc, **Marion MacKay**, '52 BSc(Nu), and **Jo-Ell Mohan**, '52 Dip(Ed), '53 BEd. We apologize for any inconvenience this error might have caused.

Lemieux's legacy continues

I read with interest the two letters from two doctors, Dr. Haynes and Dr. Sweet, one MD and another PhD, respectively, in *New Trail*, and I have two comments:

Regarding Dr. Haynes' comment, I was also taught by Dr. Walter Harris but analytical and not organic chemistry. I give evidence: Dr. Harris, and I agree, a wonderful teacher, used to walk down hallways, a tall and impressive figure, with a 500-ml volumetric which was being shaken the ... out of, and his comment in class was “for proper mixing.” Perhaps Dr. Haynes referred to Dr. Reuben Sandin, also a wonderful teacher, who swayed me and many others into the world of organic chemistry. (I am currently preparing an obituary on Dr. Sandin and would appreciate any anecdotal information that former students may be able to provide to me.)

Regarding Dr. Sweet's comment on Professor Ray Lemieux, another great teacher and researcher whom everyone expected to be a Nobel Laureate, I wish to note a recent special issue of *Synlett*

dedicated to his memory in which there is a dedication summarizing his contributions and his life (available on-line at www.thieme-chemistry.com/thieme-chemistry/journals/info/synlett/online/index.shtml).

“How sweet it is” was certainly a favourite comment of “Sugar Ray.”

Victor Snieckus, '59 BSc
Professor and Bader Chair of
Organic Chemistry
University of Alberta
30 January 2004

Editor's Note:

One of the University of Alberta's most distinguished luminaries, **Raymond Lemieux**, '43 BSc, '91 DSc(Honorary), a professor, businessman, and pioneer in the field of chemistry, was recently named to the Canadian Science and Engineering Hall of Fame by the Canada Science and Technology Museum.

When Lemieux died in July 2000 at age 80, he left a legacy of accomplishment, including pioneering efforts in carbohydrate chemistry. His work

revealed how carbohydrates bind to proteins, a phenomenon crucial to everything from immunology to cancer.

Lemieux's work gained international recognition for himself and for the U of A. He was the first recipient of the Canada Gold Medal for Science and Engineering, and also received five international awards, including the Albert Einstein World Award of Science in 1992. He held honorary degrees from 15 universities around the world, and in 1994 he was named a Companion of the Order of Canada.

Growing up, Lemieux had planned to be a carpenter like his father, but while working one summer as a bellboy at Jasper Park Lodge, he met people who were flourishing at university. He enrolled in 1936 and earned his first degree from the U of A, a BSc in honours chemistry.

Working for the National Research Council two years later, Lemieux became the first scientist to successfully synthesize sucrose in the lab. He returned to the U of A in 1961.



bear country

New fund promotes global learning

The newly created Lee Global Education Fund, endowed in January with a \$500,000 gift from the Clifford E. Lee Foundation, will allow U of A students and community members to learn and live abroad and will also support campus global education programming.

"At this university we have had enormous support from the Clifford E. Lee Foundation over the years," said U of A President **Rod Fraser**, '61 BA, '63 MA. "To me, having a strong, vibrant international community at the University of Alberta is absolutely critical."

Lee Global Education Awards will be given to individuals or organizations

seeking global education opportunities, particularly experiential learning activities in the southern hemisphere. These opportunities are generally non-credit and are often organized by non-governmental organizations, such as the World University Services of Canada, and by U of A campus organizations, such as the Students' International Health Association.

"We were looking around and started to realize that what was missing was the chance to educate young Canadians in the growing issues of peace, security, human rights—there are so many facets," said **Judith Padua**, '62 BA,

Clifford Lee's daughter and executive director of the Clifford E. Lee Foundation. "We stressed this fund also had to be accessible to the community non-governmental organizations, which emphasizes the partnership between the community and the university."

The fund will be administered through University of Alberta International, which is now embarking on a campaign to raise money to support study abroad for U of A students and bursaries for international students. The Lee gift will also support the University's annual International Week.

—Phoebe Dey

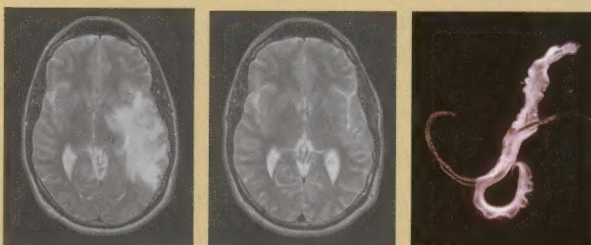


U of A doctors discover new form of paras

A short swim in the Mekong River in Laos in 2000 almost proved fatal for a B.C. university student. The young man didn't notice anything at the time, but while he was in the water he contracted schistosomiasis—a parasitic infection of schistosome flukes—that almost killed him two years later.

About two years after the student from the University of British Columbia visited Southeast Asia (his name is being withheld for privacy), he was working on a research project in Costa Rica when he became seriously ill. When his symptoms persisted for three weeks, he decided to cut his trip short and return to his parents' home near Edmonton in November 2002.

Doctors at the University of Alberta Hospital initially thought the student had contracted a minor tropical disease in Costa Rica, but after an MRI scan of the student's brain revealed a gray mass, and a needle biopsy proved inconclusive, the doctors thought perhaps he was suffering from encephalitis.



The white, asymmetrical area of the first MRI image shows the eggs laid by the parasite in the patient's brain, and swelling in the region. The second image shows the brain after successful treatment. The adult flukes (right) are about 1 cm long. The male and female are always paired.

When the student's condition worsened, the doctors did another MRI and decided to perform brain surgery to remove the mass in the brain. Their fear was that it might be a cancerous tumour, but when they saw the mass during surgery they realized it was not a tumour, but fluke eggs. It was tremendous news.

"We did a travel history of [the student], and we knew he had travelled in Southeast Asia two years before, but we also knew that he had just

come from Costa Rica, so we were thinking, 'Costa Rica, Costa Rica,'" says Dr. Stan Houston, a professor of infectious diseases at the U of A. "But when our parasitologist Dr. Kinga Kowaleska-Gorochowska looked closer at the eggs, we discovered he had *Schistosoma mekongi*, and that brought us back to Southeast Asia."

During the student's fateful swim, at least one Mekong schistosome pierced his intact skin. The parasite eventually matured into its adult form, made a home in his bloodstream, and began to lay eggs. Typically, the eggs from these flukes settle in the host's bowels or bladder. This student, however, suffered what is the first documented case in which the eggs settled in the brain.

"We don't know if this is the first time the eggs have ever settled in the brain, or if this is simply the first case

Kaplan awards honour University's top researchers

Two internationally renowned U of A researchers, Miriam Stewart and Chris Bleackley, were awarded the 2004 J. Gordin Kaplan Awards on 2 March.

Stewart has spent more than two decades taking an interdisciplinary look at the factors that affect the health of Canada's most vulnerable citizens.

"So many of the factors influencing people's health happens outside of hospitals—in the home, the workplace, the community," said Stewart, a professor of nursing and the scientific director of the Canadian Institute of Gender and Health, which is based at the U of A.

"My longtime interest in health promotion and population health led to our research emphasis on supportive social environments."

Stewart's current lines of research explore "social support as a factor that can protect vulnerable people at risk" and looking at the links between "social support and other social factors that influence vulnerability, such as ethnicity, income and gender, chronic health conditions, and care-giving."

Although Bleackley was being honoured for his work in immunology, he holds a PhD in chemistry from the University of Birmingham and has never taken an immunology course in his life.

"I come very much from a background of basic science and chemistry," he explained. "I was always fascinated by the biological side of things. It's often the case that you think there's something more interesting or mysterious in things you don't know anything about," he said.

His main research interest since he came to Canada has been the mechanisms used by white blood cells to kill infected or foreign cells by sending a chemical message. Bleackley is credited with the discovery of granzymes, which are proving instrumental to the understanding of cell death, a critical area of immunological study.

Named for the U of A's first vice-president (research), the Kaplans are the University's most prestigious research awards. Two awards are presented annually, one lauding excellence in the general area of humanities, social sciences, law, education, and fine arts, while the other is devoted to excellence in the sciences or engineering.

—Gilbert A. Bouchard and
Caitlin Crawshaw

itic infection

that has been discovered," says Houston. "Maybe this has happened before but the doctors in Cambodia and Laos couldn't see it because they don't have the panoply of imaging equipment and technology that we have here."

Houston says various forms of schistosomiasis are quite common in the developing world, affecting about 200 million people worldwide. With the infection identified, the doctors treated the student with an anti-parasite medication. He recovered almost completely after six months.

"This case is certainly a reminder to travellers to pay close attention to the advice given by the [Capital Health Authority] travel clinic, and it's a reminder to doctors to remember that patients who have been to exotic places might have an exotic explanation for their problem," Houston adds. "Knowing about this case won't revolutionize our control of these types of infections, but it certainly expands our knowledge of them."

—Ryan Smith

The lighter side of Spanish

Studying and teaching Spanish has brought Brenda Wegmann into contact with hundreds of wonderful and interesting people, including one person she never expected to meet.

Wegmann, a Spanish instructor in the Faculty of Extension for the past 15 years, has written a book, *Laugh 'n' Learn Spanish*, that is a collaboration with Lynn Johnston, creator of *For Better or For Worse*, a comic strip syndicated in about 2,000 newspapers worldwide.

"I've been a fan of Lynn's for a long time," says Wegmann, "and I loved working with her—she's the nicest person in the world."

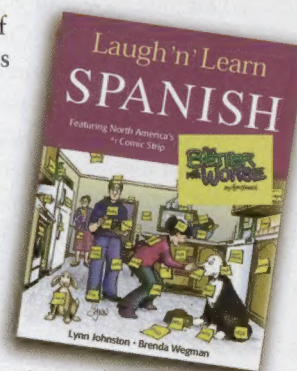
Released this month, the book includes 80 of Johnston's comic strips, presented in Spanish with headlines such as "Going out with an old boyfriend," "Looking for the perfect gift," and "Forgetful Grandpa." Each strip frames a lesson in conversational Spanish.

"It was a lot of fun to write," says Wegmann. "We tried to make it fun and easy to use. It's meant to supplement other types of Spanish instruction that might not be as much fun."

Wegmann has written a total of 10 books about Spanish language and culture, 3 of which are into their seventh printings. Although Wegmann has lived her whole life in North America, one of her recent books, *Streetwise Spanish*, teaches Spanish slang words and phrases.

"I travel a lot, and I have the fortune of having lots of wonderful Latino friends," she says, explaining how she's able to keep up with all the colloquial Spanish jargon.

—Ryan Smith





bear country

Sports Wall of Fame: 2004 Inductees



Yesterday's student-athletes are truly today's leaders. The 2004 Sports Wall of Fame Dinner will recognize the contributions of five outstanding athletes and builders of university sport. This year's inductees represent the diverse, yet equally talented individuals who have played critical roles in the successes of the University of Alberta's athletic programs and the Faculty of Physical Education and Recreation.

In addition to the excitement of recognizing the newest inductees, the Sports Wall of Fame Dinner serves as a wonderful opportunity for people to meet with friends, both old and new. The dinner will be held at Edmonton's Shaw Conference Centre on 25 May 2004. To learn more about the dinner, please visit the dinner's website at www.physedandrec.ualberta.ca/swof.cfm or call Chuck Moser of the Faculty of Physical Education and Recreation at (780) 492-3917.

Joyce Cutts (Mattson), '54 BPE, was a member of the Pandas basketball (1950–53) and volleyball (1953–55) teams, and competed for the U of A in badminton, swimming and track and field. She was a member of Canada's senior women's gold medal-winning slow-pitch softball team in 2002; she is a three-time Canadian Ladies Tennis Doubles Champion (once for over 55 and twice for over 65); and she represented Canada in the Ladies Over 70 World Tennis Championship in 2002 and 2003. Cutts has also won in her age-group for golf, badminton, and 10-km road races.

Janice McCaffrey (Turner), '80 BA, was a member of the U of A cross-country and track-and-field teams from 1977 to 1980. She has won 13 Canadian race-walking championships, is a three-time Canadian Olympian, represented Canada at four world championships, and competed in three Commonwealth Games (winning a bronze medal in 1994), among many other major competitions. McCaffrey is the 2001 Canadian Masters Marathon champion and continues to hold Canadian records in the 10-km and 20-km race walk.

H. J. (Herb) McLachlin is a past dean of the Faculty of Physical Education and Recreation (1975–81), and he coached the Pandas basketball team (1948–49), the Bearcats men's basketball team (1951–52), and the Golden Bears cross-country team (1950–59). He was a founding member of both the Edmonton and Alberta basketball officials' associations and has served on many provincial and national sports boards and committees. McLachlin received a Queen's Golden Jubilee Medal in 2003.

Lorne W. Sawula, '67 BPE, '69 MA, '76 PhD, was a member of the Golden Bears volleyball team (1964–69 and 1970–71) and has coached many university volleyball teams since then. He returned as assistant coach of the Golden Bears and the Pandas in 1993 and has coached national women's volleyball teams for Switzerland, Australia, and Sweden at World Championships, FISU, Olympic, and Pan American Games.

Stacey Wakabayashi, '89 BEd, was a member of the Golden Bears hockey team (1984–89), and represented Canada on the bronze medalist Universiade team in 1987. He is the Golden Bears' all-time scoring leader in both season play and Canada West play (averaging 1.8 points per game) and is ranked first among Golden Bear players in career points, goals, assists, shorthanded goals, and game-winning goals. Stacey still holds the Canada West Hockey career scoring record with 107 goals and 143 assists (250 points) in 121 games.

The makings of a hockey dynasty

The top-ranked, undefeated University of Alberta Pandas hockey team claimed their third consecutive national championship (their fourth in the last five years) with a 2–0 victory over the Ottawa Gee Gees in Montreal, Quebec, on 14 March.

The Pandas may soon be joined at the top by the Golden Bears, who are also undefeated and won the Canada West hockey championship with a 8–1 victory over Saskatchewan on 13 March. The Golden Bears are favoured to win the Canadian Interuniversity Sport championship at the University Cup, which begins in Fredericton on 25 March.



MESSAGE FROM THE PRESIDENT

Recently, the University's Board of Governors, chaired by Jim Edwards, produced a compelling document that argues persuasively that the continued well-being of Alberta is contingent on a tough-minded reinvestment strategy in our University and the Alberta post-secondary system.

The document, entitled A Case for Investment, is available electronically at <http://www.ualberta.ca/governors> or in hard copy by calling (780) 492-3212.

Here are some excerpts:

At the University of Alberta, we are in the knowledge business. We educate people who become the leaders of tomorrow... We stimulate new ideas and new solutions. We tackle the toughest challenges from adding value to Alberta's agricultural industry to finding more efficient ways of unlocking the potential of the oil sands...

Looking ahead, the potential is virtually unlimited. The University of Alberta stands on the brink of being indisputably recognized as one of the finest universities not only in Canada but around the world.

But there are clear signs that the potential will not be reached without a significant increase in investment at the University of Alberta. More young people are getting the message that post-secondary education is critical to their futures. Yet we don't have the capacity—at the University of Alberta or across most of the post-secondary system—to accept more students even if they have the right qualifications... We know that business and industry need highly skilled and well-educated people and that most jobs in the future will go to those with a university degree. And yet we are unable to expand our capacity to meet the current needs let alone those of the future. We know that research and ideas are critical to shape the future of Alberta's economy



Roderick D. Fraser
President, University of Alberta

and society. And yet our capacity to accommodate more research activity is stretched to the limit. We know that each and every one of our students, from first-year undergraduates to graduate students, deserves the highest quality of teaching. And yet because of limited resources, we are forced to increase class sizes and limit the scope of students' experiences. We know that all qualified students deserve an opportunity to get a university degree regardless of their personal or family finances. And yet the issue of affordability is an increasing concern for many students and their families.

All of these issues can be addressed and can be resolved. The full potential of the University to make a powerful contribution to Alberta's future and the government's long-term vision for our province can be reached. The University can play a leading role in creating wealth, developing well-informed and active citizens, building a highly educated population that is able to contribute in countless ways from volunteerism to professional employment to new ideas, and creating opportunities for young Albertans. But it will take a substantial investment and a strong commitment from governments, from alumni, from leaders in business and industry, from researchers, faculty and students to make it happen.

Search for new U of A president is underway

This year marks the beginning of the final term as president of the University of Alberta for **Rod Fraser**, '61 BA, '63 MA. Fraser, who has occupied the position since his appointment in 1995, announced his resignation in December and has already recommended that the University begin the process to find a successor.

Jim Edwards, '62 BA, chair of the U of A Board of Governors, says Fraser's replacement will inherit a very large pair of shoes to fill. "The board will, as part of the search process, be defining the nature of the president that we'll be searching for," he says. "But it's very clear that with Rod's record of success, the new individual will be building on that foundation."

Edwards says the selection committee will search for the same qualities that landed Fraser the job nearly a decade ago. The successful candidate needs strong academic credentials, a high energy level, and all the virtues associated with a chief executive position, from the ability to retain a great deal of focus on the tasks at hand, to setting a leadership example.

"That person needs to reach out into the community and be seen to be serving the community and its needs," Edwards says. "That was one of the major definitions of our founding president, H.M. Tory."

According to Fran Trehearne, senior adviser in the president's office, no candidates have yet offered to throw their hats into the ring to succeed Fraser, who leaves his post on 30 June 2005. "The fact of the matter is you get very few people who actually apply," Trehearne says, adding that a search committee, to be established this year, will more likely approach potential applicants to consider running for the position.

—Gene Kosowan



bear country

Campus Campaign raises \$3.3 million

The U of A's Campus Campaign wrapped up its first year with reason to celebrate: it surpassed the goal of \$2.5 million in gifts and pledges from within the University community by about \$800,000.

One main factor in the campaign's runaway success is that donors get to see the tangible results of their giving, says Jeff Wright, Campus Campaign manager. "We focused on our slogan, 'Giving to the Campus Campaign is giving to students.'"

At least 12 students will receive financial awards this year as a direct result of campus-based donors. In many cases, various faculties and departments, including Human Resources and Facilities Management, formed their own student endowments and bursaries, urging their staff to donate. Funds also go towards supporting other U of A programs and research.

Michelle Carle, '02 BSc, a second-year student in the Faculty of Medicine and Dentistry, is a shining example of what a little generosity can do. She is the recipient of the

\$500 Dr. Ray and Gloria Rajotte Leadership Scholarship in Medicine, bestowed by the U of A professor and alumnus who leads a groundbreaking team in diabetes research.

At the wrap-up ceremony, Carle thanked all of the donors to the Campus Campaign. "Generosity such as yours gives many students hope, who in turn give that hope back to the University community and community at large," she told her audience at the Lister Conference Centre on 24 February.

"Every one of you who has contributed to the Campus Campaign has been just as instrumental in everything that every student award recipient has achieved," said Carle.

For more information, visit the Campus Campaign website at www.giving.ualberta.ca/campuscampaign.cfm.

—Bev Betkowski



UNIVERSITY OF ALBERTA

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Join us for an afternoon of discovery exploring Alberta's Ukrainian heritage, featuring a visit to the Ukrainian Cultural Heritage Village. Join historian Radomir

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\$35 per person



Alberta's Peace Country July 22-24, 2004

Our three-day, two-night visit to Alberta's scenic Peace River country will explore the history and diversity of this dynamic corner of the province. Our itinerary includes stops at Falher, famous for its honey and French-Canadian heritage, and historic Fort Assiniboine, as well as a visit to a bison ranch, a tour of one of Canada's largest pulp and paper plants, and stays in Peace River and Grande Prairie.

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Grade 8 students envision their City of the Future

Hundreds of Grade 8 students have joined with the University of Alberta in a city-wide competition to celebrate Edmonton's 100th anniversary. At the official launch in February, held at Parkview School, students were invited to develop their vision of Edmonton in 50 years—their City of the Future.

One project highlighted during the launch was the Recreation Box, a 12-square-foot game simulator with surround sound, climate control, and reaction technology, currently in the planning stages for two Grade 8 Parkview School students, Mackenzie Perras and Cole Zmurchok.

"In the future, people will not have the time or space for recreation," said Perras, "so the Recreation Box will even be set up in condominium complexes and maintained through condo fees."

More than 450 students from 24 schools are registered in the program, and each student will participate in the competition at the Universiade Pavilion (the Butterdome) on 5 May. Winners in the six City of the Future categories (physical education, health, and life skills; mathematics and science; social studies and languages; ethics, environmental, and outdoor education; fine and performing arts; and career and technology studies) will be invited to display their projects during the city's centennial celebrations on 8 October.

U of A Chancellor **John Ferguson**, '64 BCom, '98 LLD (Honorary), says the University values its strong relationship with the city. "We're proud to have been a partner for most of the city's 100 years. By engaging our youth in this celebration, and by encouraging them to think creatively and strategically about our City of the Future, we hope to reward innovative thinking and engender pride in Edmonton," he said.

The City of the Future program is a joint project of the U of A Senate, the City of Edmonton and local school boards. Grade 8 students were selected because they will be eligible to enter university in 2008—the U of A's 100th anniversary.

—Maxine Montpetit



University receives \$25 million in innovation grants

A new centre of excellence for research into gastrointestinal disorders is one of the big winners at the U of A in the latest round of grants from the Canada Foundation for Innovation (CFI).

The \$8.2 million grant for a planned



Richard Fedorak

Centre of Excellence for Gastrointestinal Inflammation and Immunity Research was one of seven grants awarded to the U of A, totalling \$25.4 million.

The announcement was made in March by Prime Minister Paul Martin and CFI President David Strangway. About \$450 million in Innovation Fund awards was handed out for research infrastructure at 126 projects across the country.

The University of Alberta's Division of Gastroenterology has long been recognized as one of the best research units of its kind in the country. **Dr. Richard Fedorak**, '76 BMed, '78 MD, who will lead the new centre, says the infrastructure funding from CFI will consolidate an outstanding team of U of A researchers from four faculties in an international centre for gastrointestinal research.

Many gastrointestinal diseases are caused by bacteria and viruses, says Fedorak. One aim of the centre is to identify those agents, then do genetic work to find out why some people are more vulnerable than others. That

work will hopefully lead to more effective treatments.

"We would never, individually, be able to do that," Fedorak says. "One person doesn't have the knowledge set in today's interdisciplinary world. So what you have to do is combine people's expertise."

Many of the centre's labs, and its administrative offices, will be located in the new Zeidler Family Gastrointestinal Health and Research Centre, a three-storey, 30,000-square-foot facility scheduled to open on the east side of the University of Alberta Hospital next fall.

Other CFI grants awarded to the U of A, involving 6 faculties and 17 departments:

- \$5.9 million for an integrated nanosystems research facility
- \$5.7 million for a cardiovascular translational research centre
- \$2.3 million for an oil sand and coal interfacial engineering facility
- \$1.8 million for a project to restore movement (neurology)
- \$1.2 million for an agricultural genomics and proteomics centre
- \$224,000 for a remote field facility to support ecosystem management emulating natural disturbances

—Geoff McMaster

THE STORY

The traditional knowledge of the Athabasca Chipewyan is handed down

Mary Bruno, like most of the women, is spiritually connected with the Roman Catholic Church.

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RYTELLERS

Chipewyan is handed down through the stories told by their elders

The northern Alberta community of Fort Chipewyan is home to approximately 1,200 First Nations inhabitants, including some 250 members of the Athabasca Chipewyan First Nation.

Established nearly 200 years ago, Fort Chipewyan is both the oldest European settlement and one of the most inaccessible communities in the province. It is perched on the shore of massive Lake Athabasca in the northeastern corner of Alberta. For most of the year, the only access is by plane.

Fort Chipewyan's remoteness proved a blessing for many years: a traditional lifestyle of hunting, fishing, and trapping was able to flourish, largely untouched by contact with the outside world.

Then everything changed in the 1970s. The construction of the Bennet Dam in British Columbia permanently altered the water flow in northern Alberta, an area in which fur bearing animals had thrived. At about the same time, the demand for fur garments declined significantly. Almost overnight the trapping industry, a core activity in the traditional lifestyle of the Athabasca Chipewyan, disappeared.

By the summer of 2000, the community realized the urgent need to record their traditional knowledge, culture, spiritual traditions, and land use practices. There were scarcely 50 Athabasca Chipewyan elders left. These elders were the last of their people to have lived the traditional, land-based lifestyle. With their passing, the community's link to its past would vanish.

Award-winning photojournalist George Webber, '73 BA, was invited by the Athabasca Chipewyan First Nation to join them in creating a book that would tell the elders' stories. These pages show just a few of the images he captured, together with excerpts from the book *Footprints on the Land*.

Tracing the Path of the Athabasca Chipewyan First Nation (reprinted with the permission of the Athabasca Chipewyan First Nation).



"I was invited to create photographs for the book and recognized it as a wonderful opportunity. My work in documentary photography has been about seeking out people with important stories to tell and in the recording those stories to learn about and to be more connected to life."

—George Webber



Mary Madeline Marcel (centre) and her sister Eliza Flett with a portrait of their mother, Esther Price.

ACFN Elder Mary Madeline Marcel was a new bride of 16 in 1937 when she joined her husband Benjamin Marcel on their first summer hunting trip together to the mainland with a group of families from Jackfish. The young newlywed didn't have many skills that would be useful on a month-long hunting and camping trip, so her husband, who was 36, told her to stay behind. As Mary's daughter Alice Rigney tells the story:

"Mom told him that she was going and needed to know what to pack for the journey overland. Dad told her to make dog packs. She had no idea how to do this so she went over to her sister-in-law's and looked at their dog packs until she had an idea on how to pack the necessary items for such a journey. She had to pack the bedroll, clothing for two, dry goods and balance the packs so that they didn't fall over to one side or the other. This took some skill and practice. My dad helped Mom load the precious cargo on four dogs and then they were ready.

"Other extended family members on the trip included Isadore and Columbe Voyageur, Uncle Joe and Rosa, Jonas and Annie Piche, and Marie Mercredi, Gabriel Mercredi's mother. They left Jackfish Lake and boated as far as Jonas Laviolette's house (now Magloire Cardinal's home). They unloaded the boats, put the dog packs on the anxious animals and started on their journey. The men and women travelled together until they arrived at Big Rock, where they had lunch and rested the dogs. The dogs each had a leash, which the women would hold so they didn't wander or chase rabbits or grouse. From Big Rock, the men left before the women, who would follow about three hours later.

"Granny Marie (Mercredi) was the leader as she was the oldest and the wisest. The men were headed for the campsite and were hunting along the way. When the women started on the trail, which followed the natural ridge of the sand hills, they would watch for notch signs on trees, which was their signal indicating the direction the men went.

"Mom said it was a hot day and the dogs were thirsty. The women did carry water for the dogs in pails, but the dogs' sharp noses told them there was water up ahead and they started to pull away from the women. Granny Marie told the women to hold on to the leashes. However, some of the dogs got away and made a beeline to the lake, much to the dismay of the onlookers. One of Mom's dogs got away and followed the others into the lake—it was the one with the blankets! Needless to say, that was the spot where camp was to be for the first night. The women got their dogs out of the water and proceeded to dry the bedding and clothing.

"Later, when the tent was set for the night, the fires were burning, the blankets were drying, and the dogs were tied up, the children were happy, and the atmosphere was one of happiness—a feast was on the way. Dinner [on such trips] was usually the choice cuts, which included the brisket and ribs, usually boiled and made into soup. Bannock and tea completed the meal."

(from Chapter 7: Following the Seasons)



Instead of sitting in the backyard of his Fort Chipewyan bungalow, Alex Flott would prefer to still be out on the land.

Josephine Meynardi told the story of Ttha'naltther, an important tale about the early relationship between the Cree and Chipewyan people.

The story of the Dene woman Ttha'naltther (Falling Sand) is an important part of the Etthen eldeli Dene's oral history concerning their early encounters with the fur trade.

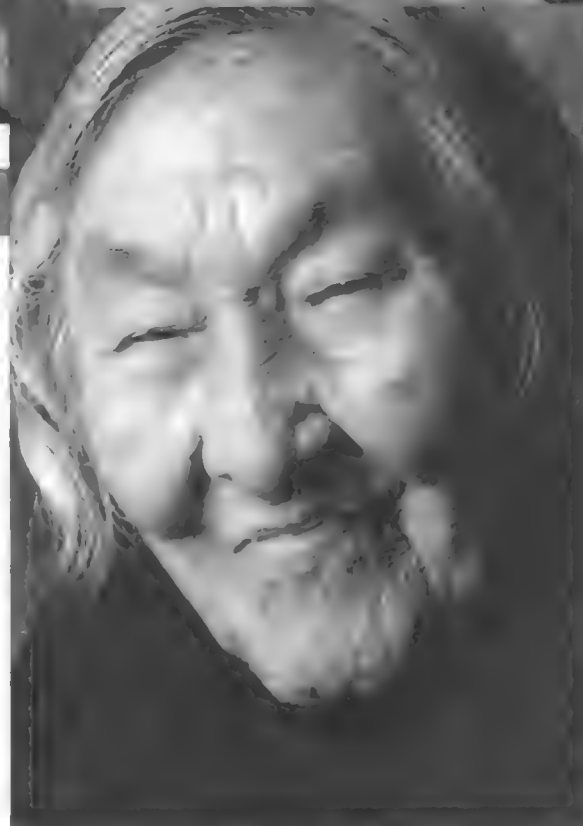
According to stories told by the Elders, the beautiful Ttha'naltther was captured and enslaved by the Cree in the early 18th century during one of their armed raids into Chipewyan areas to obtain furs for trade. The Cree had acquired guns from the European traders and had killed many Chipewyan people during these raids.

Ttha'naltther travelled to Fort York with her captors and while there she told James Knight, the chief Factor of the Fort York trading post, about the treatment of her people at the hands of the Cree. Troubled by Ttha'naltther's story, Knight sent company trader William Stuart into the interior with Ttha'naltther on a mission to make peace between the Cree and the Chipewyan and to

bring the Chipewyan into the fur trade. According to Elders' stories, Ttha'naltther was a courageous and dynamic woman who spoke Cree "with indifference." Stuart also spoke Cree.

The trip into the interior was difficult and Ttha'naltther had some trouble locating her people, most likely because they were trying to avoid the threatening Cree. She finally found them somewhere north of Lake Athabasca and east of the Slave River.

However, the Chipewyan people most likely had been pushed north and east as a result of the increased aggressiveness and firepower of the Cree during this time.



It appears that Ttha'naltther was instrumental in making peace between the Cree traders and the Chipewyan and in encouraging her people to join the fur trade, thus beginning a new era in their history.

(from Chapter 3: First Encounter)

Charlie Voyageur is still very active on the land.

Controlled burning is a traditional way the Aboriginal people exercised their stewardship of the land.

Charlie Voyageur told about the spring when he was 11 years old and was out picking eggs. One day he left his campfire burning while he picked duck eggs and the fire got away from him. His father was going to punish him for letting the fire go out of control, but his grandfather said "Leave the kid alone—he has done the country good."

"Two years later the raspberries were tremendous in that area," Charlie recalled.

(from Chapter 9: Respecting and Preserving Traditional Knowledge)



Victoria Davis, an expert with her traditional skills, continues to make traditional items like slippers made of moose hide with beaver skin.



Victoria Mercredi has recounted many legends, including the legend of Gwich'in, the Arctic Giant.

Chipewyan legends tell of two giants who fought a great battle in the Arctic many years ago. One fell dead with his legs landing in the Arctic, his backbone forming the mountains and his head ending up close to where the Chipewyan people lived. The "head of the giant" melted, as a glacier would melt, with the giant's blood (the rivers) flowing from the body. ACFN elders, including Victoria Mercredi, say the body of the giant represents the lands of the Dene people. Some believe this story might relate to the migration of the Dene from the north.

(from Chapter 1: In the Footsteps of Glaciers)

Here's to Song:

The Mixed Chorus celebrates 60

by Lee Craig, '91 BA

It's Saturday, 6 March, at the Francis Winspear Centre for Music in Edmonton. All of the seats are full, and the people in them laugh and talk expectantly. A great feeling of comradeship fills the air. An older man with a red tie and a tan walks out onto the stage to perform with the chorus. He is Bill Kelly, a 1940s alumnus, and he sings "The Turtle Dove," an English folk song, with passion and dignity. When he finishes, the audience explodes with applause, some chorus members cheering and stamping their feet. It is the 60th anniversary gala concert of the University of Alberta Mixed Chorus, and the tremendous spirit that makes this university club so special is very much on display.

"The Mixed Chorus was a life-changing event for me," says Robert Swanson, '71 BEd. He has stopped during intermission to look at the photographs set up outside the concert hall.

"It was my first exposure to classical music, it's where I made fine friends and it's where my wife and I met."

Dorothy Swanson, '72 BSc(Pharm), soprano, and her husband, baritone, smile as they talk about the University of Alberta Mixed Chorus (UAMC), and most especially about the tours the chorus made (and still does) around Western Canada.

"The tours solidified the friendships," says Swanson.

A few feet away, Lorna White (Daverne), '56 BPE, and Gladys Saunders, '55 BPE, both altos, talk happily about how they used to billet together when the chorus was on tour.

"One time we stayed with a family in Calgary who kept trying to feed us cabbage rolls," says White.

"There was a feather bed there," adds Saunders. "And we used to paint the tour bus before we left [on tours] with silly sayings from songs. It was a lot of fun."

Both women remember a tour of the Peace River country, and in particular, the Francophone town of Falher, where local kids would interpret for the members of the Mixed Chorus.

"We learned to appreciate music, and loved singing with other people who had the same interest. ... It was a fellowship," says White.

Saunders, her hands on her hips in an imitation of conductor Richard Eaton (whom some called "The Boss"), explains that she gained a lot from Eaton's expertise. "I learned to really listen. ... He improved the depth of my music appreciation."



Mixed Chorus alumnus Bill Kelly sings "The Turtle Dove" during the 60th anniversary celebration concert on 6 March 2004.

Even in the busy lobby, before they rush back for the rest of the performance, the enjoyment White and Saunders felt from being members of the Mixed Chorus comes across very clearly. They both still sing in choirs, and both mention how they love the reunion, including singing with their friends again in smaller group sessions, under the direction of Bob de Frece, '69 BSc, '75 BEd, the present conductor of Mixed Chorus.

Indeed, the Mixed Chorus, with its "unifying force," as de Frece calls it, had great success on its 60th anniversary weekend. Alumni came from across North America and from even as far away as New Zealand to be part of it.

* * *

years of glorious memories

The Mixed Chorus began in 1944 when Gordon Clark, '46 BSc, '48 MD, a first-year medical student and musician, helped organize a group of about 70 students who wanted to sing. Their first concert was held in Convocation Hall on 1 March 1945.

Now, 60 years later, the Mixed Chorus is one of the oldest non-athletic clubs on campus, and it is still completely student run. The chorus still goes on tour to other towns and cities in the West, and it still performs at churches and schools in the city. Since Clark, the chorus has had five other musical directors, with Eaton (1947–68), Ronald Stephens, '50 BEd, '62 BA, (1971–86), and de Frece (since 1986) conducting for the longest stretches.

The current musical director, in addition to an impressive list of other music credentials, teaches in both the Department of Music and the Department of Elementary Education at the U of A. It is readily apparent to anyone who saw him at the reunion that he is well-loved by both present chorus members and alumni.

De Frece thinks it is something inherent in the singing that makes the Mixed Chorus, and Mixed Chorus reunions, so wonderful.

"Everyone is so close because they sing together. Singing is organic. When you sing, you don't have an instrument between you and the audience. You are united with the other singers, the conductor, and the audience. Your body is your instrument. ... [At reunion] I see people I haven't seen for 34 years. I see a great sense of camaraderie from others."

As conductor (he also sang with the UAMC from 1967 to 1971), de Frece feels a strong bond with the singers. "There has to be a trust and energy between you and them. ... They trust you will show them what they need to see."



Customizing the Mixed Chorus tour bus was an important tradition.

One thing de Frece says he definitely expects is a professional attitude once a chorus member is on stage or in rehearsal. "You're not paid, but you should act like it," he says. "I think I scare new people in the chorus when we are rehearsing for the December carol service. They see me in full snarky mode. Before that I am reasonably nice."

De Frece expects to stay on as musical director for another three years. He says there is no guarantee that the next director will be an alumni of the chorus, but he is definitely excited about the support offered by the Mixed Chorus Conductors' Endowment.

Ed Stein, a music education student, has been the president of the Mixed Chorus for the past two years. He points to the hard work of the chorus members to explain the group's success over its 60-year history. He adds that the alumni association is keeping an eye to the future by establishing the endowment fund.

Phone solicitations were made to ask alumni to donate to the fund, says Stein. Mixed Chorus alumni helped the Development Office with some calls.

Stein thinks approaching Mixed Chorus alumni directly is a great idea. "You make more friends in an extracurricular activity than in a lecture theatre," he says.

The Mixed Chorus is one of the oldest non-athletic clubs on campus, and it is still completely student run.



Conductor Gordon Clark jokes with his chorus after a 1947 concert.

There has to be a
trust and energy between
you ... They trust you
will show them what
they need to see."

—Bob de Frece

The endowment fund was created by the Mixed Chorus Alumni Association in the fall of 2002, and it is intended to help support the Mixed Chorus over the long term, says Darlene Bryant, '91 BEd, who sang soprano from 1986 to 1990, and who retired as president of the Mixed Chorus Alumni Association this year.

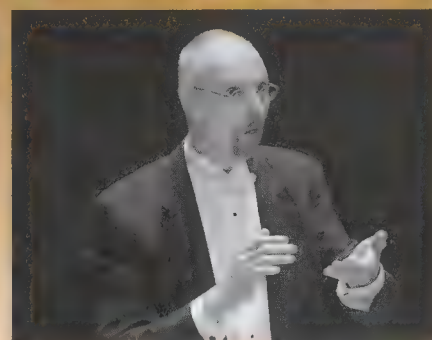
Bryant says the first year and a half of fundraising has been very successful. Prior to the 60th anniversary concert, \$20,000 in donations and pledges was raised by the telephone campaign, and the Mixed Chorus itself raised \$25,000. Then, on the night of the concert, the Mixed Chorus presented another \$10,000 to the endowment fund, bringing the total to \$55,000.

"I am thrilled by its success," says Bryant.

* * *

Bill Kelly, '51 BSc(Eng), who proudly wears his 76 1/2 years, originally sang "The Turtle Dove" around 1948. Much later, he had a surprise over it—a recording had been made and included on the CD for the 50th anniversary, which Kelly did not attend.

"I was interested in going to the 60th reunion because I was still alive and I wondered who else might be," says Kelly. "When I discovered that the song had been recorded, I suggest-



Bob de Frece, the current Mixed Chorus conductor, is closing in on Richard Eaton's record as longest-serving conductor.

ed to the powers that be, 'Hey, why don't I do it? I am a really old guy who can still sing it.' "

Kelly became a concert singer as his main occupation after spending 25 years working in his chosen profession of engineering. "My early years with the Mixed Chorus no doubt contributed to my musical experience, to help me in this undertaking."

While Kelly was working at his first job as an engineer in Goose Bay, Labrador, he started a community choir, something that he attributes to the learning experience of the Mixed Chorus.

* * *



Conductor Ronald Stephens and Ronnie Bear on tour in 1981.



The Mixed Chorus takes its joyful singing on tour every spring.

At the end of the evening, after the performance of the Gospel Mass, which has everyone in the audience clapping wildly, the concert that began with the ringing of handbells ends with the same. The people in the audience—who were very careful during the show to only cough or make noise when the singing was over—watch as the 133 members of the Mixed Chorus climb down the stairs to the aisles of the Winspear’s main floor and walk past them singing “Good Night” (arranged by de Frece, author unknown). The expressive faces of the men in their tuxedos and black bow ties and the women in their long black evening dresses demonstrate that the chorus knows it has performed well.

De Frece later says that the performance of Edward Chapman’s arrangement of “She’s Like the Swallow”—a Newfoundland folk song that was on the program of the last Mixed Chorus conducted by Eaton in 1967—was the 2004 chorus’s best ever performance of the piece. “They did everything I wanted. Their focus was outstanding, and I think they were inspired by the energy of a capacity audience that included so many UAMC alumni.”

After the finale is over, de Frece looks very happy at the reception in the upstairs lobby. It is an emotion that seems to be shared by the entire crowd. There is quite a crush of people right outside the main doors of the concert hall as people sort out if they are going upstairs or staying put to chat with friends and family. Because the current members of the Mixed Chorus were standing outside the Winspear waiting until the audience exited the main concert chamber, some of them are now trying to warm up. One of the soloists is holding a bouquet of flowers and having her picture taken with a woman who might be her grandmother.

Bill Kelly, he of the red tie and earlier, well-received performance, sums up the continuing tradition of Mixed Chorus: “It was most important that I was singing with students today, after 55 years, and I was doing the very same song [that I once sang]. ... Can you imagine? That will never be repeated for me. For the other singers ... to think that some of them are doing what I did, it’s magical.”

“It was most important that I was singing with students today, after 55 years, and I was doing the very same song. ...

Can you imagine?”

—Bill Kelly

Remembering the roots of her brilliant career

by Debbie Waldman

Even before her long and distinguished career got off the ground, Josephine M. Mitchell, '34 BSc, was a rarity. When she earned her Bachelor of Science degree with first class honours in Mathematics in 1934, she was one of the first female graduates at the University of Alberta and one of only five that year to graduate with a BSc in Arts.

Mitchell left her hometown of Edmonton to earn master's and PhD degrees at Bryn Mawr College in Pennsylvania, specializing in mathematical analysis. While a tenured professor at the University of Illinois in the early 1950s, she met and married a fellow mathematician, Lowell Schoenfeld.

Because of an antinepotism policy, both spouses could not be employed at the University of Illinois. In the book *Woman Scientists in America: Before Affirmative Action, 1940–1972*, author Margaret Rossiter says a “blatantly discriminatory interpretation” of the policy, allowed Schoenfeld, who did not have tenure, to keep his job, while Mitchell was asked to leave.

Mitchell and her husband protested the decision—to no avail. As devoted to each other as they were to their careers, they both left the University of Illinois.

They were mathematical nomads, holding a variety of academic and industrial positions, for the next few years until they were both hired at Pennsylvania State University in the late 1950s.

Mitchell's hobbies included canoeing, taking pictures of wildflowers, hiking, and travelling. Through it all, and through a career that spanned five decades, Alberta was never far from her thoughts. She planned to make a bequest to the University of Alberta, and she included one in a draft of her will. Because of failing health, however,



she never had a chance to formalize the document before she died, at the age of 88, in December 2000.

It was then that Schoenfeld informed the University of his late wife's intention: to leave US\$1.6 million to her first alma mater. A professor for most of her career, and one who had helped guide seven students to PhD degrees,



Mitchell's wish was that her gift be directed to support graduate programs in mathematics.

The gift was made to the University in 2002, after Schoenfeld died. It was used to establish two endowments. The first, the Graduate Student Endowment supports graduate scholarships, graduate recruitment scholarships and a grad-

QUAECUMQUE VERA HONOUR SOCIETY

The Quaecumque Vera Honour Society is an integral part of the donor recognition program at the University of Alberta. Membership is given to those donors who choose to make a gift to the University through modern estate planning.

Named after the University of Alberta motto, which means “whatsoever things are true,” the society recognizes the forethought of donors who advise the University that they have provided for the University in their estate plan.

There are many benefits of membership:

- An invitation to the annual society event
- An invitation to the Annual General Meeting
- Issues of *New Trail* and *Folio*

- The University's annual *Report to the Community*
- Access to the University Libraries
- Notices about Alumni Travel programs
- An opportunity to purchase a Faculty Club membership

Qualifying gifts for membership in the society include, but are not limited to the following:

- Life Insurance (and other life insurance products)
- Bequests by Will
- Charitable Trusts
- Charitable Gift Annuities
- Gifts of Residual Interest
- Gifts of Income Generating Property
- Gifts of Registered Retirement Products (RRIF and RRSP)



Mitchell and Schoenfeld on their wedding day (left) and travelling during their retirement (centre). Mitchell graduated from the U of A in 1934 (above).

uate research prize in the Department of Mathematical and Statistical Sciences. Last year, seven students received \$3,000 Dr. Josephine M. Mitchell Graduate Scholarships for Academic Excellence, and one student received the \$5,000 Dr. Josephine M. Mitchell Graduate Research Prize. This fall, Dr. Josephine M. Mitchell Recruitment Scholarships will be used to attract outstanding graduate students to the department.

The second endowment, the Josephine M. Mitchell Library Endowment, provides annual support to the Mathematics Library to purchase research journals that had become too expensive for the library to continue acquiring.

In addition, \$450,000 of the Mitchell gift is being used to fund the Josephine M. Mitchell Laboratory, which will be in the new Centennial Centre for Interdisciplinary Science Building.

Mitchell's contribution was the largest single gift to the Faculty of Science, and one of the largest bequests to the University. University President Rod Fraser, '61 BA, '63 MA, is grateful to for her generosity. "Planned gifts are the legacy from which we will build our future," he says. "All gifts are significant to the long-term success of our University."

PLANNED GIVING

Since opening its doors in 1908, the University of Alberta has become one of Canada's premier universities, with programs that are respected around the world. Excellent faculty, staff, and students have enabled the University to grow in stature. The generous and ongoing support of donors has enabled it to thrive.

Of the many avenues for contributing, Gift Planning is becoming increasingly popular. Planned gifts are often used to enhance a donor's annual gift. Donors typically make either a restricted or unrestricted gift. A restricted gift is given for a specific purpose, such as a scholarship, bursary, endowed chair, or research in a particular department. An unrestricted gift can be used wherever the Board of Governors deems it is most needed.

Whether your goal is to leave a legacy, help a student in need, or enhance the strengths of a favourite faculty or department, Gift Planning provides a wealth of opportunities to help you make a difference at the University of Alberta.

Here are a few of the options for Gift Planning:

Bequests: One of the most common forms of planned giving, a bequest is often referred to as "the ultimate gift," because it is a gift of cash or property made as part of a will. The donor's estate will receive a tax receipt, which reduces the estate's tax bill. If the total receipt cannot be used for tax purposes on the donor's final tax return, the excess may be carried back to the previous tax year.

Publicly traded securities: These include stocks, bonds, bills, warrants, futures, and stock options traded on the Canadian and most foreign exchanges. If you make a charitable gift of publicly traded securities to the University, the Canada Revenue Agency will reduce the taxable portion of any resulting capital gain from 50 to 25 percent. You can then use that savings to offset other income. This reduced inclusion rate does not apply to gifts made to private foundations.

Life Insurance: Life insurance is one of the most common ways people choose to make a planned gift. If you decide to make the University the owner

and beneficiary of an existing policy, you will receive a charitable receipt for the policy's cash surrender value.

If you choose to purchase a policy and donate it to the University and are making regular payments, the annual premiums are eligible for a charitable tax receipt. If you are making a gift of a whole life policy, you can pay it up over a short period of time, after which the dividends earned by the premium fund will cover the ongoing annual premium payments. The tax credit that results while the policy is being paid off will help defray approximately 45 percent of the premium cost. In both cases, the gift or death benefits are paid outside the estate, and therefore are not diminished by probate fees.

Donating a new policy is one way of turning a modest, short-term investment into a meaningful gift. The annual premiums are eligible for a charitable tax receipt. The tax credit can defray approximately 45 percent of the premium cost.

Existing policies may also be used as a gift. As an individual's circumstances change an insurance policy once needed to assure financial security may no longer be needed. A gift of a paid-up insurance policy naming the University of Alberta as owner and beneficiary is an excellent Planned Gift of an under-utilized asset.

Land, Real Estate Property: A growing number of donors are making gifts of land and residential property. For individuals, it may be beneficial to donate capital property, rather than first selling the property and then donating the cash proceeds. The annual donation limit will be increased by 25 percent of any taxable capital gains triggered on the donation of the capital property. For donations made after 17 October 2000, only 50 percent of the capital gains are taxable.

For more information about planned gifts and bequests, contact

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*No purchase necessary. The contest is open to residents of Canada who have reached the age of majority where they reside. The approximate value of the new Mercedes-Benz CLK320 Cabriolet is \$74,000. The contest runs from January 1st to December 31, 2004. In order to win, the entrant, selected at random, must correctly answer a mathematical skill-testing question. For the odds of winning and to learn how to participate, see the complete rules of the Win the new Mercedes-Benz CLK320 Cabriolet Contest at www.melochemonnex.com/uAlberta.

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environmental news



University of Alberta
Environmental Research and Studies Centre

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Life in the Deep Freeze

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Flying above Ellesmere Island in a Twin Otter plane, you cannot help but be overcome by a sense of awe at the vast whiteness below you. Or at least I couldn't. And this sense of awe had only a little bit to do with the view.

Ellesmere Island is about as far north as you can get (as a grad student) in Canada. Aside from the personal hygiene issues (too cold for ear wax or showers), staying there for two months in a tent was a bit daunting. And that sense of awe I mentioned? It never left me. It is hard to describe, but the best analogies I can draw are to standing in the middle of the desert or swimming in the middle of the ocean. But most of the time, I felt as though I were on another planet, almost certain in the knowledge that there was little life around me.

Since I was supposed to find something that could live in this harsh environment, this was not exactly the best attitude. So I started small—with bacteria. Bacterial life is one of the earliest forms in evolutionary history and can conquer every environment on Earth, including the vast, ice field on which I briefly lived.

Despite the spectre of global warming, the Earth is a cold planet. More than 70% of the Earth's fresh water exists as ice and by volume 90% of the Earth's salt water is below 5°C. Of the Earth's landmass, 14% is considered polar and approximately 20% of the soil ecosystem exists as permafrost. In these areas, where temperatures can reach as low as -60°C, microorganisms have unbelievably found a niche. In the frigid deserts of Antarctica, microbial communities eke out an existence within porous rock, away from wind and UV irradiation exposure. Pockets of sea brine in sea ice become oases for algae and bacteria. Tiny veins of liquid water between glacier ice crystals are perfect alcoves for these extraordinary microbes to inhabit. Many of these microbes have been carried from the far corners of the Earth by wind and precipitation and have adapted to live in these cold climates. Others are thought to be ancient life forms that have endured several global glaciations over the past 600 million years.

It is now proposed that wherever liquid water is found, no matter what the conditions, bacteria can survive. This idea has enthralled scientists and the public alike as it has made the prospect of life elsewhere in the solar system a distinct possibility. Recent speculations about a subsurface ocean on Jupiter's moon Europa and about melting beneath the Martian polar ice caps have intensified the



search for microbes living in extremely cold environments, as these communities provide the closest Earthly analogues to ice-covered extraterrestrial environments.

Recently, high numbers of microorganisms have been detected in the liquid- and sediment-rich ice layers beneath John Evans Glacier, a large valley glacier located on Eastern Ellesmere Island, Nunuvut, Canada. This glacier, like many others, has liquid water at its base where the ice mass and the land meet. Amazingly, we have found that microbes in this environment are active at temperatures as low as 0.3°C, and perhaps even colder. Our study attempts to characterize and compare the microbial communities beneath the glacier, on the glacier's surface (snow and ice), and in the soils and sediments adjacent to the glacier. Because of differences in physical factors such as ambient temperature, light and water availability, and temperature fluctuations, microbial community structure and composition may vary significantly between these three environments, even though relatively small distances separate them. Our results will help determine what kinds of microbes are present, where they might have originated, and what influence they are having on the local water chemistry. In the Arctic, nutrient cycling is extremely slow due to the cold temperatures, but microbial interactions act to catalyze these natural abiotic processes. By examining the hydrochemistry

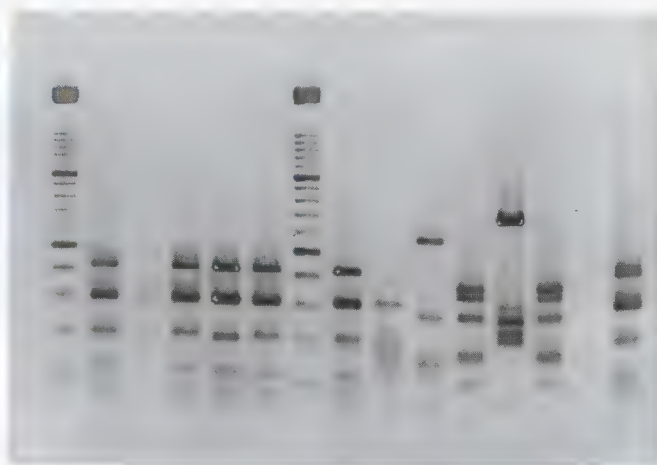


Sampling at John Evans Glacier, Nunuvut

of the environments we can gain insight into the types of metabolic strategies that these organisms employ to survive in these environments, and also the precise biogeochemical impact of these communities on glacial environments.

In previous studies, psychrophiles ("cold-loving") microorganisms have been examined using classic microbiological approaches, which involve isolating and growing microbes in a laboratory. These growth-based techniques are biased, however, in that they facilitate the preferential growth of certain microbes that respond well to the laboratory conditions over others that do not.

Because of the bias encountered with classical approaches, we are using modern molecular biological techniques that do not rely on growth of the microbes to characterize them. We isolate microbial DNA from the glacier samples, amplify it by polymerase chain reaction (PCR), and then analyze the DNA to determine what organisms were present in the original sample. In this way, the DNA serves as a molecular "fingerprint" which allows us to obtain a more complete picture of the microbial life beneath, on, and adjacent to the glacier. Through DNA analysis, we have created fingerprints for entire microbial communities within the three sample environments to allow comparison between communities. We have also created fingerprints for individual microorganisms to identify the major players within each community (see image below).



Our study indicates that the environments on, beneath, and adjacent to John Evans Glacier appear to be fairly distinct from each other, thus illustrating that the glacier bed may contain uniquely adapted organisms not present in the other terrestrial systems. Indeed, these communities may represent the type of life present elsewhere in our solar system and even the universe.

When I left the field, I doubted I had found anything beyond mere ice. But as we worked in the lab we were continually surprised by the diversity of organisms that we turned up and by the ability of life to thrive in even the most unlikely of places.

**Bird-brained
Inspiration and
Experimental Design**

Cindy Platt

BSc, MSc Candidate
Department of
Renewable Resources



I never had much of an appreciation for chickens until recently. I mean, they are tasty, and one could even say cute, if looked upon in the right lighting. Beyond that however, I never gave them much thought—until this past summer.

I am a graduate student in the department of Renewable Resources. The focus of my Master's thesis is to study the mortality of raptors (hawks, eagles, owls, falcons and vultures) on power lines in Alberta. The project was outlined in the November 2002 issue of *Environmental News* ("Raptors vs. Lethal Lines"). Briefly, I am trying to discern which configurations of power poles pose the largest threat to raptor species in my study area (east-central Alberta). From there I want to determine which structural modifications are most effective in making these poles raptor-safe. Although electrocutions occur anywhere power lines and raptors co-exist, I have partnered up with one company, ATCO Electric, for this research.

I spent the summer of 2003 patrolling power lines looking for electrocution evidence such as avian carcasses (or parts thereof) and the presence of burn marks on the poles. I was also collecting information on pole configuration (voltage of the line, mounted hardware), and raptors' use of poles—either by visual sightings of the birds on the structures or excrement or pellets left behind (raptors regurgitate "pellets" of indigestible components of their meals such as bones and fur).

Finally, I was collecting data on the relative abundance of raptor species in the area by surveying the landscape for three minute "point counts".

Whenever a carcass was found, it was frozen and later dissected to confirm the species, age and sex of the bird. Any physical damage sustained was noted as well. Most of the bodies that were dissected were the result of the servicemen from ATCO Electric turning in bird carcasses found during power outage investigations. My assistant and I did not find as many carcasses during our patrols as I had expected. I pondered the reason for this as I stumbled to avoid coyote and badger dens that dotted the landscape surrounding the poles—perhaps scavengers were toting away the very evidence I was looking for before we got there.

But how to account for this? Suddenly I remembered that during my literature review last year, I had scanned a brief description of a scavenging rate assessment that was part of electrocution research similar to mine. I dismissed the idea at the time, thinking that it did not pertain to my research. But now, I reasoned, I needed to do a similar type of experiment, to get a more accurate estimate of the actual mortality rate by correcting for scavengers.

Finally I get to the chickens. The above-mentioned literature described distributing rabbit carcasses beneath power lines and measuring the rate at which they disappeared. For my purposes, though, I thought using an avian carcass similar in weight to large raptors would be more effective. The University of Alberta Poultry Unit fulfilled my request for 50 chicken carcasses, and before long I had them in the back of my truck as I headed back to my field site.

On a cold, wet, miserable day, my assistant and I diligently distributed the carcasses randomly beneath 50 power poles. At the time it seemed insane to be doing such an unpleasant task in such harsh weather, but it was it well worth it. We assessed daily for seven days and thereafter weekly for six weeks, the rate at which the carcasses were



disappearing. To our astonishment, over half of the carcasses were gone within the first seven days and continued to disappear steadily after that.

Although these data have yet to be statistically analyzed, the story emerging is likely very telling. Once the electrocution data collected during our patrols are corrected for scavenging using the data collected during the scavenging experiment, a much more accurate estimate of raptor mortality from electrocution will be possible.

As far as the electrocution evidence that was collected is concerned, some interesting trends appear to be emerging in the preliminary analysis. For example, despite there being roughly the same proportion of Red-tailed Hawks (*Buteo jamaicensis*) and Swainson's Hawks (*Buteo swainsoni*) in the area, not a single of the latter was collected. Perhaps the Swainson's Hawks have a natural aversion to the dangerous structures? Or maybe the slightly smaller size of the bird is enough to safeguard it from bridging the gap between two energized wires or an energized wire and a grounded wire?

Furthermore, it appears thus far that female raptors are more susceptible to electrocution than males. This might be explained by their larger size, or perhaps there exists a sex difference in the way in which they use the poles during hunting and feeding.

One thing I have learned is that the scavenging rate assessment, despite being an impulsive afterthought in my research design, has become an integral part of this study. Once those data are combined with the electrocution data collected during summer patrols, a much more accurate picture of the extent of raptor electrocution in my study area should emerge.

It is funny how one's research can evolve as it unfolds. The part of my research that took the least amount of time, preparation and money is now such a fundamental component of this study. I recommend any graduate student reading to pay attention if a light bulb goes off after your field season is well underway. What unfolds just may be the missing link in your project.

Impacts of a Petroleum Pipeline Failure on an Aquatic Environment in the Alberta Foothills

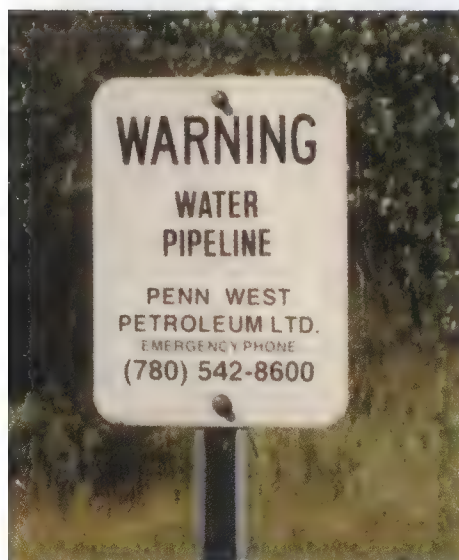
By Cam Stevens

PhD Candidate
Department of
Biological Sciences

Alberta's landscapes of mountain, prairie and boreal ecosystems provide habitat for diverse assemblages of plants and animals, and ecological services that improve human quality of life. Alberta is also endowed with large areas of petroleum-bearing rock providing wealth for industry and Albertans. The energy boom began in 1947 when drilling struck oil near Leduc. Today, petroleum exports exceed \$18 billion each year. Key to this growth and success has been improvements in pipeline technology and the 500,000 km of pipeline that links Canadian centres for supply and demand. This network includes massive steel conduits more than a meter in diameter that transports large quantities of petroleum across provinces and international boundaries. The majority of pipelines, however, are small flowlines and gathering lines that traverse short distances between wells and oil batteries where water

and impurities are removed. In Alberta, these lines extend over 250,000 km.

The Energy and Utilities Board of Alberta reports approximately 700 pipeline failures every year which vary from small leaks to large ruptures, resulting in loss of the substance being transported. These failures typically occur in flowlines and gathering lines and are primarily due to internal corrosion from water and multiphase oil. Multiphase oil pipelines can carry unprocessed petroleum, minerals, salt water and gas with hydrogen sulfide. Water pipelines carry fresh or salt water removed from the oil (produced water) or either surface or groundwater that is injected in wells to displace oil to the surface. In 2002, the total reported spill volumes of hydrocarbon and produced water by companies operating in the province were 5,189 m³ and 19,165 m³, respectively. To prevent product loss from the predominantly steel pipelines, chemicals that reduce corrosion and accumulated debris are widely used. These chemicals can be released during leaks and ruptures in poorly maintained or old pipelines. While it is known that hydrocarbons and salts can harm the environment, to my knowledge,



A warning for a pipeline that failed in the summer of 2002 spilling freshwater, corrosion inhibitors, and industrial bactericides into beaver ponds in the Pembina Oilfield



Field enclosures used to assess the role of pond conditions in the growth and survival of larval wood frogs near Lodgepole, AB.

there are no experimental studies or field reports on the effects of pipeline maintenance chemicals, clear liquids that may appear harmless in a freshwater spill.

On July 10, 2002, I notified Penn West Petroleum that a pipeline leak may have been responsible for a large number of dead amphibians observed in a beaver-obstructed stream I was studying in the boreal foothills eco-region near the town of Lodgepole. The company immediately pressure tested nearby pipelines to discover that a freshwater line containing industrial bactericide and corrosion inhibitors had failed. Unfortunately, the company did not know when the break occurred or the length of time chemicals had leaked into the local stream before the spill was contained on July 12, 2002. The spill was classified as an intermediate leak of between 2 m³ and 20 m³. None of the spill was recovered. This unfortunate event occurred upstream of a field experiment and provided me with a unique opportunity to document the environmental effects of a typical pipeline failure in Alberta. As part of my PhD research project, I was using field enclosures to assess the role of pond conditions in the growth and survival of larval wood frogs on four beaver ponds. Coincidentally, one was the spill pond. The other three sites were similar reference ponds not affected by the pipeline failure. Each pond had six enclosures that were constructed of wood frames with nylon window screen on all sides and placed in the shallow margins of ponds (see photograph above). At the start of the experiment, 20 recently hatched larvae were

added to each enclosure. On day 33 (July 10, 2002), I found that none had survived in the spill pond while in the three reference ponds, the mean survival rate in enclosures was 91 %. I also recorded 300 dead larval wood frogs outside the enclosures in the spill pond between June 19 and July 10. No dead larvae were observed in the reference ponds.

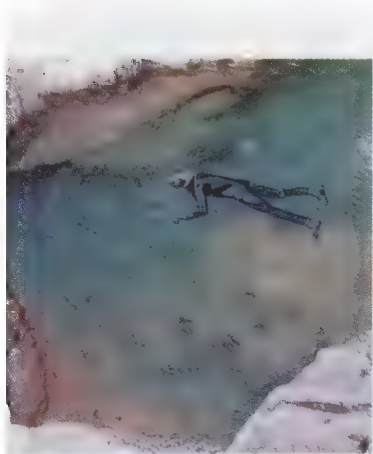
My field experiment clearly suggests that corrosion inhibitors and industrial bactericides in pipelines pose a threat to amphibians and pond ecosystems. Given this evidence, the high rate of failures from an increasingly extensive pipeline network represents a potentially large environmental impact in Alberta. I recommend i) the Energy and Utilities Board of Alberta compile field information on the effects of pipeline failures on the natural environment; ii) collaborative research between industry and university on the ecotoxicology of pipeline maintenance chemicals; and iii) the oil and gas sector implement new pipeline technology that reduces corrosion, such as internally-coated steel. Otherwise, the health of local ecosystems that provide us with so much may be severely compromised. The potential legal aftermath of pipeline failures should also be of concern for Penn West Petroleum and other companies in Alberta. A recent oil spill that wrecked an iguana study in the Galapagos Islands resulted in a court battle won by Martin Wikelski from Princeton University and the Galapagos National Park against an oil tanker's owner and insurer for US\$10,000,000 in damages.

**Bottom of the Ninth
Inning for Elbow River
Bull Trout**

Ryan Popowich,
MSc Student,
Department of
Biological Sciences



*OHV tracks in the
Elbow River in close
proximity to bull trout redds
Photo credit: Greg Eisler
(Trout Unlimited)*



*Snorkel survey
on the Elbow River
Photo credit: Jeff Smith*

The Elbow River is one of many eastern slope rivers that bridge the gap between the snowy peaks of the Rockies and the prairies' flat plains. In addition to its natural intangible values, the Elbow River is cherished by recreational users; supplies water for livestock and crops; and, perhaps most importantly, provides drinking water for nearly one in six Albertans. The river is also home to a dwindling population of bull trout. A provincial ban on harvesting bull trout, implemented in 1995, has had mixed results; while some populations are showing signs of improvement, the Elbow River population is among those in decline. Having spent a great deal of time working to understand the habitat and foraging requirements of Elbow River bull trout, I now equate the relationship between human activity and these fish to that of a baseball pitcher and a batter.

The Elbow River begins its journey high in the mountains at Elbow Lake, approximately 80 km west of Calgary. From there, it charges through warm sub-alpine valleys, deep cold canyons, and out through treed flats on its way to the Bow River enroute to Hudson Bay. This path remained unimpeded for millennia until one day in 1930, when the river met the concrete of Calgary's Glenmore Dam. Bull trout, as well as other fish species, could no longer move freely between the Bow and the Elbow, potentially blocking historically important spawning runs. Strike one.

As with many water bodies in Alberta, the Elbow River is home to several introduced fish species. Exotic species threaten native biota in numerous ways including increased competition for limited resources, alterations of species composition, and hybridization leading to gene mixing. In doing so, alien species jeopardize conservation efforts by extirpating native populations and suppressing population recovery. In Alberta's rivers, brown, rainbow, and brook trout have been introduced for their fighting ability, appearance, or to provide a familiar angling experience for European settlers. The Elbow River is no exception—this invasive trio is competing with the dwindling bull trout population for limited resources.

Bull trout carry the biological burden of narrow habitat requirements, late sexual maturity, long life cycles and relatively

long periods between reproduction events. In contrast, brook trout have broad habitat tolerances, short life cycles and an early spawning age, making them excellent competitors and invaders. In concert with suppressed bull trout populations and increased habitat challenges, an environment conducive to successful brook trout invasion and colonization is created. Because bull and brook trout are both members of the "charr" group of salmonids, the potential genetic disaster of hybridization between these species looms overhead. This trend is supported by my growing collection of suspected Elbow River bull trout X brook trout hybrids.

In addition, illegally farmed Arctic charr escaped from a trout farm into a tributary of the Elbow River between 1999 and 2001. Subsequently, efforts have been made to prevent the escaped Arctic charr from establishing a self-sustaining population; to date, the search continues and I am currently snorkeling the river in search of escapees. Should Arctic charr be discovered, there will be a total of four species of exotic trout in the river, all of which pose direct competitive challenges, and two of which constitute potential genetic time bombs. Strike two.

Another aspect of my research involves monitoring the movements of 30 adult bull trout implanted with radio transmitters in fall 2003. To my surprise and disappointment I have found five of the transmitters lying on the banks of the river. It would have been naïve not to anticipate that some poaching was occurring on the river, but five of thirty fish poached in a single month exceeded even my most cynical predictions. Assuming comparable poaching levels exist for untagged adult bull trout, poaching rates for one month approach 17%; this would explain the 25% reduction in bull trout redds (spawning sites) from 2002. Strike three.

There are other seemingly less significant threats present. A petroleum access road washed out depositing a large amount of sediment into a tributary and ultimately, the river. Additionally, an off highway vehicle (OHV) area resides nearby. Some of these outdoor enthusiasts drive outside of the OHV area, leaving quad tracks on the river banks and spawning gravel, and even on top of bull trout redds. Call it a coincidence, but two of the poached bull trout were located near a pool where illegal

OHV activity has been documented. Throw in poaching due to misidentification of bull trout by anglers, along with fecal contamination and riparian damage caused by cattle activity and we could probably call this a collective strike four.

My frustrations are compounded by the fact that obvious solutions exist, but have been met with resistance. The most obvious solution is to block the illegal OHV access to the river; unfortunately, efforts to date have been unsuccessful. Provincial budget cuts have also translated into decreased enforcement patrols in the area, reducing the chances of reprimanding poachers and users of illegal OHV trails. I am also not the first to suggest that cattle probably shouldn't be defecating in the drinking water of nearly one in six Albertans.

Finally, accidental poaching resulting from angler misidentification of fish could be reduced if anglers were required to pass a fish identification test in order to harvest fish in the eastern slope's streams and rivers.

When I first surveyed the river my reaction was "it doesn't get any better than this", but after spending a year in and around the river, I think that it could be a lot better. I'm not sure how many strikes this population can take, but I am sure that it is the bottom of the ninth. I'm hoping that when I begin tracking the Sheep and Highwood river populations this summer, the game isn't such a landslide.

The Current State of Boreal Lakes

By Michael Christensen

MSc Candidate
Department of
Biological Sciences

If you were to hear the phrase "boreal lake", what would you imagine? Would you picture rich blue waters and lush green forests? Does the word "pristine" come to mind? In truth, to the human eye, a large number of our boreal lakes match this description and appear to be pristine. It is difficult to imagine that these systems are currently threatened by human activities. However, these areas are not as removed as we once thought them to be. Climate warming, acidification, stratospheric ozone depletion, exotic species, land-use changes, eutrophication, and over-fishing are just some of the threats to the millions of lakes present in Canada's boreal zone. Our boreal lakes are an abundant source of

as a pristine lake in a brochure or in real life. A lake that has lost its entire native fish population due to introduced game fish, lost huge amounts of wetland vegetation due to shoreline development, and is concurrently being affected by climate change, acidification and increased ultraviolet radiation, appears just as healthy as a pristine lake. Secondly, media and environmental groups are generally silent about this issue. This fact, combined with the 'remoteness' of the boreal zone furthers the idea that these lakes are untouched. Thirdly, there is a misconception that science and industry have solved previous environmental problems (e.g. acid rain and ozone depletion), and will be able to solve current and future problems (e.g. global warming).

Despite decades of research and millions of dollars aimed at prevention, the ecological threat of acid rain has not been removed. While sulfur oxide emissions have been steadily decreasing since the 1970s due to industrial reductions, nitrogen oxides have not been controlled, and, as a result, have drastically increased.

Thus, the ecological threat of acid rain remains, and continues to affect organisms as large as fish, and as small as bacteria within lakes. In areas where acid deposition has been substantially reduced, lakes have taken decades to recover from the acidification, and in most cases, have yet to recover. In the few lakes that have naturally recovered from acidity, many of the organisms that were eliminated due to acidification have yet to return.

drinking water, food, recreation, and natural beauty. These "ecosystem services" are performed by relatively few species in boreal lakes, and, as a consequence, even a small loss of biodiversity can severely jeopardize the integrity of these ecosystems. Unless awareness is raised and action taken, these once pristine systems will irrevocably change for the worst.

There are three factors that combine to create a general ignorance of the true state and future of Canada's boreal aquatic systems: Firstly, a 'stressed' lake looks just as pretty



Partridge Lake, Killarney
Provincial Park, Ontario



Super Stacks, Sudbury, location of some of the world's worst cases of acid rain

Even with the success of the Montreal Protocol of 1987 in reducing the amount of ozone-destroying particles released, the rate of stratospheric ozone destruction and coinciding increase of ultraviolet (UV) radiation has not slowed. The 'ozone hole' in the Antarctic has shown little evidence of shrinking, and recent data is showing that the ozone layer above the northern hemisphere is thinning at an alarming rate. Increased UV radiation will not only harm humans, but is likely to have devastating impacts on aquatic organisms. UV radiation is lethal to a wide range of organisms, particularly those that reside in the shallow areas of lakes where the sun's effects are the strongest. Many species of fish, particularly juveniles, reside in the shallows and will likely exhibit reduced numbers (if not entire elimination) if UV levels continue to increase.

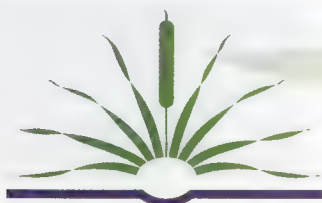
Climate change is likely to be the single greatest threat to the stability, and perhaps even the existence, of many boreal lakes. Even if precipitation rates drastically increase, the evaporation rates predicted from an average warming of approximately 4°C will greatly reduce the net amount of water available in lakes and streams. Climate change will result in the water levels of many lakes dropping dramatically, and shallow lakes may be in danger of completely drying up. Warmer temperatures will threaten many aquatic species since many of these already live at their thermal optimums. As air temperatures rise, so will water temperatures, exposing many species to temperatures above their thresholds. For example, it was observed that lake charr (a species of fish) was virtually eliminated from an Ontario lake due to temperature stress during the warm El Niño summer of 1998. Climate change has the potential to disrupt a huge number of systems in Canada's boreal zone.

Acidification, ozone depletion and climate change have typically been thought of having very little in common. In reality, these stresses are closely linked, and the rise of one of them will result in greater impacts of all the stressors, creating a situation far worse than ever imagined.

The main connection between global warming, acidification and UV radiation in aquatic systems is a material called dissolved organic carbon (DOC). When an abundance of DOC is present in a lake, the water appears brown; when DOC is low, the water appears clear. DOC acts as a 'shield', filtering out UV radiation, light and heat. Lakes with a sufficient amount of DOC provide an environment that is cool, dark, and free from UV, which is highly desired by many aquatic species. Interestingly, global warming, acidification and UV radiation all act to drastically reduce DOC levels within a lake. Thus, the biota in a lake that is only being acidified (and not experiencing climate change or ozone depletion) must also cope with the additional stresses in increased temperature and UV radiation due to the loss of DOC. One quickly realizes that a lake that is concurrently experiencing all three stresses (as many lakes currently are) will experience substantial DOC loss and subsequent stresses.

Unfortunately, the situation of elevated temperatures, increased UV radiation, and acidification has never been tested experimentally, thus scientists do not know for certain the impacts of when these stresses interact. My thesis research will examine the effects of these three stressors upon boreal aquatic communities in an attempt to determine the magnitude of the threats posed on these systems.

Canada's boreal aquatic systems are currently threatened by a host of stresses, including a variety of others not discussed above. The reality of the situation is that each impact alone can be detrimental; in addition these stresses will interact with each other, creating worst-case scenarios. Although our freshwater resources are indeed massive, not a single area is free from our fingerprints, and these systems may be far more fragile than anticipated. Increased awareness to the true environmental situation of these systems is required if they are to be preserved.



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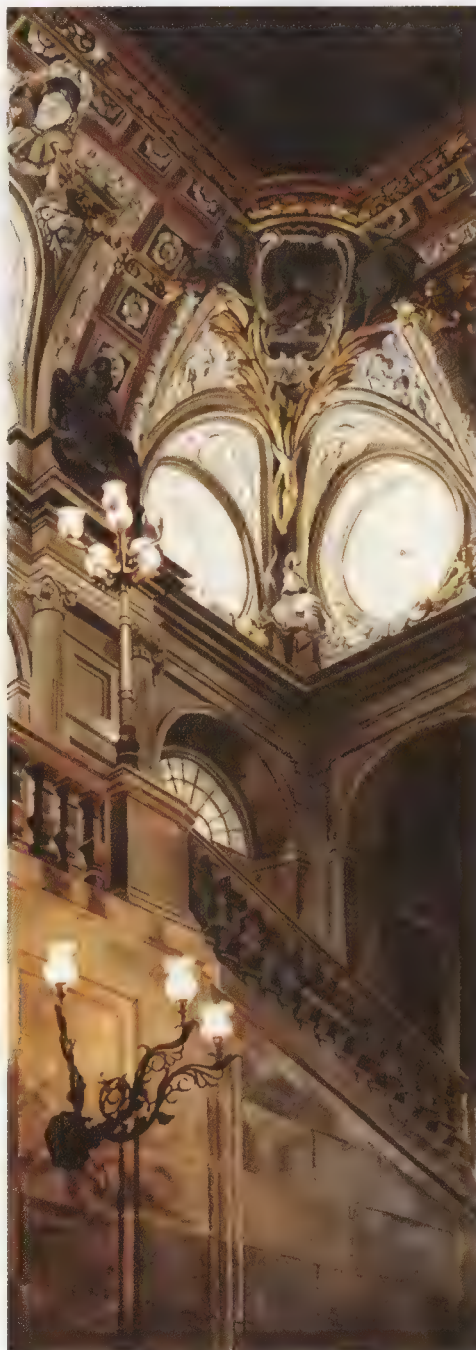
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Seminars: www.ualberta.ca/ERSC/es.htm

trails

Following the Footsteps of University of Alberta Alumni



Spanish Staircase,
29 x 10 1/2 inches

born and educated in Alberta, Jennifer Annesley, '89 BFA, is a professional artist whose passion for the art and architecture of past centuries is a strong influence on her work. Her watercolour "Spanish Staircase" won the Curry's/Winsor Newton Award for excellence at the 78th annual Open Water exhibition put on by the Canadian Society of Painters in Watercolour in Toronto last October. "The foyer of the Royal Palace in Madrid was breathtaking," says Annesley. "The murals, sculpture, architectural detail and enormous scale of this room combine to make this a spectacular space." You can see more of Annesley's work at www.annesleystudio.com.

REFLECTIONS



This column marks the end of my extended two-year term as president of the Alumni Association, and I must say that I

enjoyed all of it. The best thing, of course, was meeting people while on the job.

After years and years in the legal profession, the characters encountered had become rather static—other lawyers, judges, accountants, career criminals, and the like. But once affiliated with the Alumni Association, Nobel scientists, world-famous athletes, and even people like Desmond Tutu were regularly presented to receive the honours that they truly deserved, and, of course, I got to meet them.

I found that once you got over the magnitude of their success, they were real people just like the rest of us. Each one of them told me earnestly about the importance of the University in their lives and how, without their formal education and a lot of chance and circumstance, they would not be where they are today.

I guess all of us can reminisce in that fashion, but the only thing common to all of our stories would be the degree that we received from the U of A. That commonality still defines many of my current relationships.

My wife is a U of A alumnus, and we often talk about our salad days with our two oldest children, who are attending the University at this time. There is often lots of humour concerning strange professors, "weird clothes," and arcane bits of information that can only be disseminated by intellectuals. There are also earnest conversations about research resources, tuition, funding responsibilities, and the "special" professors who turn you on to a study that the whole experience of attending university rich.

I would like to thank Susan Peirce and her staff for making me look successful over my term as president, and I hope that you will consider volunteering some of your time to your faculty or any part of the University. Trust me, you'll like it.

Gordon E. W. Barr Q.C.
'72 BSc, '74 BA, '77 LLB
Alumni Association President

SALUTE TO VOLUNTEERS

Class organizers are the indispensable volunteers who will make their class reunions memorable events. Here is a list of alumni who have agreed to help organize their class reunion during Reunion 2004.

1939 (65 years)

Agriculture: Fred Bentley
Chemical Engineering: Stuart Davis
Mining Engineering: Harold L. Johnson

1944 (60 years)

Nursing (Dip): Barbara Swanson & Greta Thompson

1949 (55 years)

Civil Engineering: Norman Reid & W. David Usher
Commerce: Keith Fowler & Ronald McGillivray
Education: Gwyn Bailey
Engineering: Dave Usher
Home Economics: Margaret Matheson & Sheila McLaggan
Mining Engineering: Wally Lindberg
Nursing (Dip): Muriel Gillespie
Nursing (BSc): Marion Grimsrud

1954 (50 years)

Agriculture: Gabriel Boulet & Ron McCullough
Chemical Engineering: Duncan R. Bird
Civil Engineering: Aki Nawata
Dental Surgery: Bart Levitt
Home Economics: Jean Horne & Rita O'Brien
Law: Joseph Brumlik
Petroleum Engineering: Leroy Field
Pharmacy: Audrey Foster, Marilyn Gaelick, Bill Leisen, Dorothy MacQuisten, Olena Stadnyk & Orest Verchomin

1959 (45 years)

Agriculture: Lawrence McKnight
Chemical Engineering: Wayne Maunder
Commerce: Allen Crompt & John Krall
Pharmacy: Hap Yaworski
Physical Education: Donna Enger

1964 (40 years)

Agriculture: Donald Hoover
Commerce: Maurice Bastide
Medicine: A. Wilson

Pharmacy: Shirley Heschuk, Larry Shipka, Sr., Vera Stepnisky & Marilyn Thornton

1969 (35 years)

Agriculture: Noel McNaughton
Chemical Engineering: Gareth Crandall
Nursing (Dip): Cathy Boyce

1974 (30 years)

Agriculture: Ruth Ball
Nursing (BSc): Jacqueline Blevins

1979 (25 years)

Civil Engineering: Alan Drew-Brook
Commerce: Ronny Fritz
Dental Hygiene: Patti Gainer & Lori Reimer

Geology: Robert Kuchinski
Law: Doris Wilson
Medicine: Marlene Lidkea
Pharmacy: Lorraine Herlein

1984 (20 years)

Agriculture: Marlaine Osgood
Electrical Engineering: Brenda Barron

1989 (15 years)

Bachelor of Arts: Mike Lam
Computer Engineering: Blair Lowe
Occupational Therapy: Colleen Basaraba & Patricia Pretty

1994 (10 years)

Dental Surgery: Jay Dalmer
Education (Dip): Michael Tryon
Electrical Engineering: Troy Thieman
Mechanical Engineering: Cory Sutela

Mining Engineering: Andrea Sedgwick
Nursing (BSc): Julianne James
Occupational Therapy: Aryn Valji
Pharmacy: Sara Hanson
Physical Education: Jennifer Koehli
Physical Therapy: Jodie Cowan

1999 (5 years)

Bachelor of Arts: Lisa Volorney
Nursing (BSc): Kirsten Leach & Glenda Williams

If you would like to help out with your class's reunion, please contact Tracy Salmon in the Office of Alumni Affairs at (780) 492-3224 or toll-free in Canada and the US at 1-800-661-2593.



evergreen



St. Joseph's College

Alumni Memorial Service

Since 2000, the Alumni Association has organized a special memorial service to honour University of Alberta alumni who have passed away.

"This annual ceremony was established as a way to express sorrow over the loss of members of our alumni family and to help remind us of the contributions our alumni have made in shaping our university into the outstanding institution it is today," says Tracy Salmon, '91 BA, '96 MSc, the coordinator of the service.

Various members of the University community are involved in this event: the service is led by members of the University of Alberta Chaplains' Association, with music provided by the Mixed Chorus. As an added feature this year, the Department of Music will be providing one of their graduate students to accompany the choir on the Convocation Hall organ.

"The music of the Mixed Chorus has added a magical touch to this ceremony in the past," says Salmon. "Now that we have moved the service into Convocation Hall with its amazing pipe

organ, the music will be even more moving."

This year's Christian service will be held on 28 March in Convocation Hall, located in the Old Arts Building. The service will take place from 2 to 3 p.m., followed by a short reception in the Arts Lounge.

Although this service will be focused on those alumni who passed away during 2003, all alumni are invited to attend. If you plan to attend please reply to (780) 492-6075 by 25 March 2004.

St. Joe's Alumni Association

The Alumni Association at St. Joe's will be up and running again very soon, and they will need volunteers to help get the ball rolling. The annual general meeting is scheduled for 17 June at 7:30 a.m. in the Faculty Lounge at St. Joseph's College.

"St. Joseph's College continues to stand as a strong community of faith and learning at the University of Alberta," says Luke Campbell, St. Joe's Alumni Affairs Coordinator. "We as an alumni association have the opportunity to foster and highlight both the past and future of this institution."

Please feel free to give Campbell a call if you can help out, or, even better, drop by the college and say hello. He can be reached by telephone at (780) 492-7681 ext. 245, or by e-mail at alumsjc@ualberta.ca.

Alumni MBNA Campaign

As an alumnus of the University of Alberta, one of the ways that you can support your Alumni Association is through our University of Alberta Affinity MasterCard Program. It is available exclusively through MBNA. Every time you use your U of A Alumni Association MBNA MasterCard to make a purchase, a contribution is made to the Alumni Association at no additional cost to you! These contributions allow the Alumni Association to continue to provide alumni programs and services, including the provision of an online community, e-mail forwarding, athletic events, scholarships, bursaries, alumni awards, and student programs.

This spring, alumni will be contacted with information regarding the affinity program by a third-party agency, which has signed a confidentiality agreement with the University. In compliance with Alberta's Freedom of Information and Protection of Privacy Act, all alumni information is destroyed once the agency has completed the campaign.

The Alumni Association wants to remind you that you are always welcome to contact the Office of Alumni Affairs to limit the type of contact you receive from the University of Alberta. We can be reached at (780) 492-3224 or toll-free in Canada and the U.S. at 1-800-661-2593.

Alumni School in Cortona

The University of Alberta Alumni School in Cortona is a collaboration between the Faculty of Arts and the University of Alberta Alumni Association.

The longstanding goodwill resulting from the wartime contributions of Canadians helped set the stage for the creation of the University of Alberta Cortona School. In 1992, archaeologist Helen Fracchia, a University of Alberta classics professor, began excavating a Roman-era site a few kilometres outside the town walls. The excavation site soon became a U of A archaeology field school and is now partially funded by the town of Cortona.

As a result of the good working relationship that was established between the U of A and the town of Cortona, the Cortona School was officially opened in the spring of 1999. The University, maintaining academic standards and providing the lecturers, administers a truly collaborative effort, with the town supplying equipment, supplies, and classroom space in an annex of the town's 13th-century San Agostino Church.

Today the school can accommodate up to 50 people in the program each year. The academic calendar runs from January to the end of March, with classes held from Monday to Thursday, creating a three-day weekend for study and travel. While alumni are welcome to participate in the school, the Alumni School in Cortona has been created to give a flavour of the school experience in a condensed schedule.

Alumni Events

Unless otherwise noted, for information contact the Office of Alumni Affairs at (780) 492-3224 or 1-800-661-2593 (toll-free in North America) or e-mail alumni@ualberta.ca.

USA Branches

Los Angeles, California

17 April

All-Canadian Alumni Event

The Century Plaza Hotel & Spa
Hosted by Western University
Contact: ndevereu@uwo.ca

Washington, D.C.

17 April

All-Canadian Alumni Event

Hyatt Regency Bethesda
Hosted by McMaster University
Contact: damicok@mcmaster.ca

Boston, MA

1 May

All-Canadian Alumni Event

Langham Hotel Boston (formerly know as Le Meridien Boston)
Hosted by The University of Ottawa
Contact: amfont@uottawa.ca

International Branches

Annual Hong Kong Reunion Dinner

Postponed until October 2004

Australia Alumni Receptions

Postponed until October 2004

Paris, France

May (exact date TBD)

Alumni Branch Event

Guest Speaker: Dr. Rod Fraser,
U of A President
Contact: Aly Virani
(aly_virani@hotmail.com)

Canada Branches

Bonnyville, Alberta

3 April

Annual Alumni Brunch

Guest Speaker: Dr. Franco Pasutto,
Dean of the Faculty of Pharmacy
Contact: Jennifer Lawton-Godziuk
(ljpgodziuk@telus.net)

Victoria, B.C.

24 April

Annual Alumni Brunch

Hotel Grand Pacific
Guest Speaker: Dr. Ian Morrison,
Dean of the Faculty of Agriculture,
Forestry, and Home Economics
Contact: Darcy Verschoor
(darcy.verschoor@rbc.com)

Vancouver, B.C.

25 April

Annual Alumni Brunch

UBC University Golf Club
Guest Speaker: Dr. Ian Morrison,
Dean of the Faculty of Agriculture,
Forestry and Home Economics
Contact: Jamil Ahmed
(jahmed@shaw.ca)

Toronto, Ontario

6 May

Branch AGM and Reception

Guest Speaker: Dr. Daniel Woolf,
Dean of the Faculty of Arts
Contact: John Buchan
(john.buchan@sympatico.ca)

Mayerthorpe, Alberta

20 May

Alumni Dinner

Contact: Wendy Gould
(tsf@telusplanet.net)

Camrose, Alberta

27 May

Alumni Dinner

Calgary, Alberta

11 June

Spruce Meadows Show Jumping Event & Dinner

Guest Speaker: Dr. Daniel Woolf,
Dean of the Faculty of Arts
Contact: Douglas Colton
(dscoltn@shaw.ca)

Other Events

East for 60: For Friends & Fun Mixed Chorus Spring Tour

This spring the UAMC will be heading out to places never seen and some of the best places that we've ever been. This edition of tour will see us heading south through Alberta, all the way to Montana, and then back home again through Saskatchewan.

24 April: Lethbridge, Alberta
25 April: Great Falls, Montana
26 April: Havre, Montana
27 April: Glasgow, Montana
28 April: Moose Jaw, Sask.
29 April: Preeceville, Sask.
30 April: North Battleford, Sask.
1 May: Lloydminster, Alberta

Contact the 2004 Tour Managers at UAMCtour2004@canada.com or visit www.ualberta.ca/~chorus/tour.htm for more information.

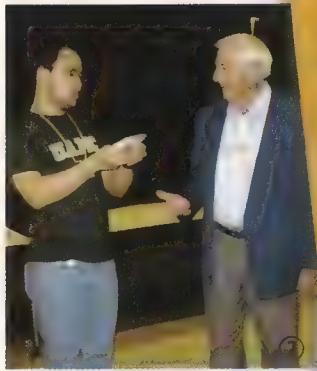
Scrapbook



Exploring East Africa

- 1) Breakfasting on the banks of the Uaso Nyiro River in the heart of Samburu National Reserve, Kenya.
- 2) The participants in the Alumni Association's East African Explorer tour, 4–19 February, pose for a group photo.
- 3) Overlooking Ngorongoro Crater, a World Heritage Site in the volcanic highlands of Northern Tanzania.

- 4) Students gathered outside their classrooms at a village school near Samburu National Reserve—one of the schools to which Alumni Association travellers brought gifts of books and supplies.
- 5) Exploring famous Olduvai Gorge, where East Africa's earliest known hominid remains were found in 1959.



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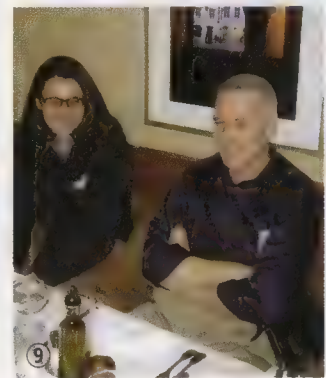
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1) The Mixed Chorus 60th Anniversary Celebration booklet is available from the Office of Alumni Affairs.

2, 3 & 4) Mixed Chorus Alumni exchanged stories and viewed memorabilia at the Telus Centre on 5 March.

5) Calgary Christmas Carol event, 7 December 2003.

6 & 7) Victoria Christmas Celebration, 14 December 2003.

8 & 9) New York Pasta Party, 5 February



bookmarks

Rolling On: The Story of the Amazing Gary McPherson

Gerald Hankins, '41 BSc, '51 MD



Read about the achievements of a man who has led an inspirational life, despite being left a quadriplegic after contracting polio. Through courage and determination, he redefined his possibilities, finding success and happiness as a sports coach, business lecturer, husband, and father. (University of Alberta Press, www.uap.ualberta.ca)

Talon

Paulette Dubé, '84 BDes, '86 BEd



The descendants of a French Canadian woman discover the truth about healers and the unshakable code of loyalty that rules their family through a diary passed down through the generations. (NeWest Press, www.newestpress.com)



The Politics of Cultural Mediation

Edited by Paul Hjartarson, '70 BA, '76 MA and Tracy Kulba, '97 MA

This collection of essays explores the contact zones produced by the migrations of two German-born cultural figures: New York Dada poet and artist Else Plötz (1874–1927), better known as Baroness Elsa von Freytag-Loringhoven; and writer and translator Felix Paul Greve (1879–1948), known in Canada as Frederick Philip Grove. (University of Alberta Press, www.uap.ualberta.ca)



Where Are You From? Middle-Class Migrants in the Modern World

Dhooleka S. Raj, '92 BA

Raj explores the complexities of ethnic minority cultural change in this incisive examination of first- and second-generation middle-class South Asian families living in London. He challenges prevalent understandings of ethnicity that equate community, culture, and identity. (University of California Press, www.ucpress.edu)



Telling Tales: Storytelling in the Family



Gail de Vos, '71 BEd, '88 MLS, Merle Harris and Celia Barker Lottridge

This book is a guide to enriching your family life by learning to tell family stories, folktales, and nursery rhymes. It includes personal stories, how-to tips, and extensive resource lists. (University of Alberta Press, www.uap.ualberta.ca)

African Dinosaurs Unearthed: The Tendaguru Expeditions

Gerhard Maier, '77 BA, '89 MLIS



The dinosaur and other animal fossils found at Tendaguru form one of the cornerstones of our understanding of life in the Mesozoic era. The book reveals how scientific endeavors were carried on through war and political turmoil in the first half of the 20th century, and continue into the present day. (Indiana University Press, www.indiana.edu/~iupress/)



How to Retire Happy, Wild, and Free

Ernie J. Zelinski, '73 BSc(Eng), '86 MBA

Zelinski offers inspirational advice on how to enjoy life at its fullest, and have an active and satisfying retirement. The book encourages retirees to pursue interesting leisure activities, creative pursuits, and physical and mental well-being. (Visions International Publishing)

Tough Trails

Irene Morck, '66 BSc



Tough Trails is a horse book, but is also about human relationships. A young boy saves an old horse only to find that it cannot handle the trail work it needs to do for his uncle's riding company. Then the horse disappears and the boy must work with others to find it. (Orca Book Publishers, www.orcabook.com)

Bloody Practice: Doctoring in the Cariboo and around the World



Sterling Haynes, '49 BSc, '51 MSc, '58 MD

Beginning his medical practice in the wild frontier town of Williams Lake, the author has travelled the world as a doctor, an observer, and a humanist. Stories of treating aboriginal people and white settlers in the Cariboo region join with stories of treating southern workers and Vietnam vets in Alabama and of travels in Central America to create a thought-provoking picture of the world today. (Caitlin Press, www.caitlin-press.com)

Recent Works of Poetry:

Haiku in Papiamentu

Elis Julian, translated by Hélène Garrett, '99 BA, '00 MA (University of Alberta Press, www.uap.ualberta.ca)

The Nomadic Marchesa

Ian Adam, '55 BA (Touchwood Press)

Getting to know you

Gerald Hill, '90 MA (Spotted Cow Press, www.spottedcowpress.ca)

Also Noted:

Bodies on Belmont Drive:

A Mystery Novel

Patricia Trudeau, '77 Dip(Ed) (Moose Enterprise Book and Theatre Play Publishing)

A Passion for Survival:

The True Story of Marie Anne & Louis Payzant in 18th Century Nova Scotia

Linda Layton, '68 BSc(HEC) (Nimbus Publishing, www.nimbus.ns.ca)

Adapted Physical Activity

Robert D. Steadward, '69 BPE, '71 MSc, '02 LLD(Honorary), Garry D. Wheeler, '84 MSc, '89 PhD, '93 MEd, and E. Jane Watkinson (University of Alberta Press, www.uap.ualberta.ca)

Industrial Safety and Risk Management

Laird Wilson and Doug McCutcheon, '70 BSc(Eng) (University of Alberta Press, www.uap.ualberta.ca)

classnotes

'40s

'45 Thomas James, DDS, retired 16 years ago after practising dentistry in Victoria for 40 years. "I'm proud to have two grandchildren attending the U of A at this time—one in medicine and the other in engineering."

'50s

'51 Ivan Head, BA, '42 LLB, '87 LLD(Honorary), is the subject of a *festschrift* tribute from a number of his international law professorial colleagues and former graduate students, who now teach in Canada, the U.S., and Europe. The tribute, entitled *Humanizing our Global Order: Essays in Honour of Ivan Head*, was published by the U of Toronto Press and was launched at a reception in Ottawa. The editors wrote: "These essays, written in honour of Ivan Head, foreign affairs advisor to former Prime Minister Pierre Trudeau, past president of Canada's International Development Research Centre, and professor emeritus of law at the U of British Columbia, stress the importance of protecting and enhancing human life and dignity by humanizing our global order and improving international relations—goals professor Head strove for throughout his career."

Douglas Lord, BEd, started his teaching career in Stettler, Alberta. In 1950, he and his wife went to Coppermine, Northwest Territories, as a teacher/nurse combination. Douglas also taught at the Charles Camsell Hospital, the U of A Hospital, and with Edmonton Public Schools. He retired in 1984, and recently celebrated his 84th birthday.

'53 Jadwiga Pierzchallo, Dip(Ed), '54 BEd, of Edmonton, was named the 2003 Polish Community Person of the Year for her work with the Canadian Polish Congress, for founding the Polish Canadian humanitarian Society, and for chairing the Polish Women's Federation. The award is presented by the Capital City Saving Polish Community Council.

'56 Frank Kozar, BEd, '63 BA, '67 MSc, '69 PhD, of Edmonton, received the German-Canadian Friendship Award in September 2003 for his outstanding support



Happy 100th birthday to **Alfred Drew, '27 BSc(Eng)**, who celebrated this incredible milestone on 28 February. Alfred spent most of his career working as a metallurgical engineer, which included being in charge of precision casting of the blades for the jet engines to power the Avro Arrow aircraft. In 1974, at the age of 70, Alfred retired. Since then, he has kept busy working as a volunteer in the community. Currently, Alfred is the treasurer of the residents' council in the seniors residence where he lives in Brockville, Ontario, and he still loves a good game of bridge or cribbage.

of German-Canadian relations. Currently, Frank is co-authoring a series of laboratory exercises for a science text, and continues to organize workshops and conventions in biology, plant pathology, and general education held throughout Alberta.

'57 Norman Gish, BA, of Calgary, was recently appointed to Provident Energy Trust's board of directors.

'59 Barry Vogel, LLB, now lives in Victoria, where he is associated with ADR Chambers, an Alternative Dispute Resolution Group that assists the legal and business communities in resolving disputes in a cost-effective manner.

'60s

'62 Paul Cantor, BA, of Toronto, was recently appointed chair of the board of the Public Sector Pension Investment Board.

'63 Avril Cartwright, Dip(DentHyg), of Westbank, B.C., writes that 2003 marked the 40th anniversary of the first graduating class of dental hygiene from the U of A. Avril wanted to recognize the 19 females who graduated from this class as there was no mention of this class in the reunion 2003 literature.

'66 Wanda Sunde, BEd, of Alhambra, Alberta, was recently appointed to the board of governors of Olds College.

Anthony Oldenhof, BEd, after 15 years as department head of modern languages at Prince of Wales Secondary School in Vancouver, is on medical leave. "I'm proud that my graphic design classes won the

Best School Yearbook in Canada Award for two consecutive years. It was even better than finally receiving my PhD!"

'67 Brian Felesky, BA, '68 LLB, of Calgary, was recently appointed as an independent director of the General Partner's Board for TransCanada Power, L.P.

Ray Nadeau, BSc(Eng), after 35 years of working for ATCO Gas, Inland Gas, BCGas, and associated companies, took early retirement. Ray is looking forward to taking some time off with plans of doing some consulting work in the future.

'68 Linda Simon (Bergman), BA, '70 BLS, of Windsor, Ontario, retired in 2002 from Windsor Essex Catholic District School Board.

Hank Tatarchuk, BPE, of Edmonton, was named to the Canadian Basketball Hall of Fame in Almonte, Ontario, in October 2003. Hank coached the Royal Military College from 1963 to 1967, and he was the director of basketball at the 1976 Montreal Olympics.

Stella Thompson, MA, of Calgary, was recently appointed to Alberta's Electricity Balancing Pool board of governors.

Robert Wilkins, LLB, was recently appointed judge to the Calgary criminal division of the Alberta provincial court.

'69 Ulrich Rath, MSc, of Ottawa, was recently appointed a member of Tan Range Exploration's board of directors. Ulrich is the president and CEO of Chimera Gold Group.

'70s

'71 William Avison, BA, '73 MA, '77 PhD, of London, Ontario, was recently appointed to the board of directors of the Ontario Mental Health Foundation. A professor of sociology, pediatrics, and psychology at the U of Western Ontario, William is also the chair of the Child Health and Well-Being Program of the Child Health Research Institute.

Stanley Harris, BSc(Eng), of Calgary, was recently appointed vice-president of operations for Pembina Pipeline Corporation.

Ferne Onusko, BA, '75 LLB, of Edmonton, was recently appointed to the Alberta provincial court as a judge in the Edmonton criminal division.

Robert Phillips, BSc(Eng), '76 LLB, of Vancouver, was recently named to the board of directors of MacDonald, Dettwiler, and Associates.

'72 Harry Hobbs, BA, of Gibsons, B.C., was recently appointed to Alberta's Electricity Balancing Pool board of governors.

'73 Martha Beach (Clee), BPE, '77 MSc, is the manager of the Hummingbird Resort on Mara Lake, located south of Sicamous, B.C.

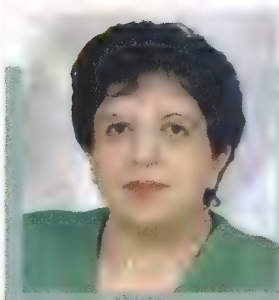
Allen Hagerman, of Calgary, was recently appointed as an independent director on the general partner board of TransCanada Power, L.P.

Stanley Mills, BSc(Ag), of Bowden, Alberta, was recently appointed to the board of governors of Olds College.



Carl Urion, BEd, '78 PhD, U of A professor emeritus of anthropology, recently received a 2004 National

Aboriginal Achievement Award for his lifelong contribution to education, research, and advocacy around native issues. Created in 1993, this award is the Canadian Aboriginal community's highest honour.



Salma Rajwani, '77 BSc, of Edmonton, was recently appointed to Canada's National Research Council. Salma is the president of Arcspan Solutions, a division of Acrodex Inc., one of the largest privately held information technology firms in Canada.

Fares Salloum, BSc(Eng), of Vancouver, recently joined fSONA Communication's board of directors.

'74 James M. Gillespie, BCom, of Edmonton, was recently appointed treasurer of Economic Development Edmonton and treasurer for the Centre for Family Literacy board.

Geoffrey Ho, BA, '74 LLB, of Edmonton, was recently appointed judge to the Edmonton family and youth division of the provincial courts.

'75 John Connors, MHSA, is in semi-retirement, operating an independent consulting service. His work includes providing educational, informational, consulting, and facilitation services to a range of organizations, including the largest occupational health and safety service in Chile. He is involved in charitable activities and advocates on behalf of international health professionals that have immigrated to Canada from Chile. His son, born during John's final year at the U of A, works in Toronto and was married in October. John works from his home-based office, which is in the Niagra fruit and wine region of Stony Creek, Ontario.

Harold Kvisle, BSc(Eng), of Calgary, was recently elected chair of the board of the Interstate Natural Gas Association of America.

'76 Deborah Hollingsworth (Lencucha), BSc(Speech), '99 MSLP, of Lethbridge, was recently awarded the Honours of the College by the Alberta College of Speech-Language Pathologists and Audiologists for her contributions to the development of community health, speech, and languages services in Southern Alberta.

William Rogerson, BA, is a professor of economics at Northwestern U in Illinois. In 1999, he was elected a Fellow of the Econometric Society.

'77 Marilyn Anstey, BA, of East Fremantle, Australia, retired after operating a real estate business for 20 years with her husband.

Sally Gosselin, BEd, of Edmonton, took early retirement after a teaching career that included working at Concordia College and Edmonton Public School Board. "Yoga, gardening, travel, reading, and writing occupy my time." Sally won two poetry contests at the Alberta Senior Games. She teaches poetry to seniors at the Central Lion Centre.

Ken McDonell, PhD, is an engineering director with SGI, a leading company in high-performance computing technology, where he is responsible for strategic planning and tactical management for software products. Ken, who lives in Victoria, Australia, recently became a grandfather.

Shimpachiro Ogiwara, BSc(PT), of Kanazawa, Japan, was appointed a professor of physical therapy with tenure at the U of Kanazawa in April 2003. His wife, **Sandra Ogiwara**, '81 BSc(PT), teaches medical English for medical and physiotherapy students at the U of Kanazawa and for physio and occupational therapy students at Century College. Classmates can reach them at oggy@mhs.mp, kanazawa-u.ac.jp or sandraogiwara@k7.ne.jp.

'78 David Evans, BSc, '82 PhD, was recently appointed chair of the medical microbiology and immunology department at the U of A. Prior to this, he was at the U of Guelph for 15 years.

Terry Piper, PhD, was recently appointed vice-president, academic, of the Humber College Institute of Technology and Advanced Learning based in Toronto.

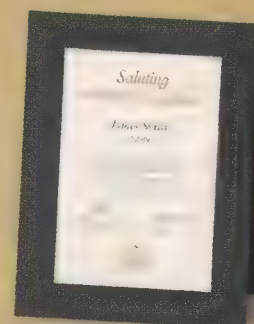
'79 Craig Warnock, BCom, of Edmonton, was recently appointed vice-president and treasurer of ATB Financial.

Saluting Alumni Achievement

Help someone you know get the recognition they deserve.

New Program!

The Alumni Association is proud to launch a new program that will celebrate the unique service and accomplishments of University of Alberta alumni from all walks of life.



Celebrating Service & Achievement

Recipients receive a matted certificate and their name appears in *New Trail*.

Criteria

Examples of achievements that will be recognized:

- ◆ receiving an award or an appointment to a new position,
- ◆ reaching a significant milestone in a career,
- ◆ providing commendable service (specific or ongoing) or leadership to a profession, community, or organization,
- ◆ attaining a level of excellence in a specific sport, hobby, or individual pursuit.

Nominate Someone You Know

Along with your name, address, and phone number, simply forward the name, address, and degree of the individual you wish to see recognized along with 200 words or less describing his or her achievement(s). Submissions will be reviewed and recognition parchments and folders sent on a quarterly basis.

Contact:

Office of Alumni Affairs
Saluting Alumni Achievement
6th Floor, General Services Building
University of Alberta
Edmonton AB T6G 2H1
Ph: 780-492-3224
Fax: 780-492-1568
E-mail: alumni@ualberta.ca

Note: This recognition program is separate from the Alumni Pride Awards and is intended to reach a broader group of alumni.

'80 Roxanna Benoit, BA, '82Cert(Arts), 85 LLB, was recently appointed president and CEO of the Canadian Investor Relations Institute, which is headquartered in Mississauga. Previously, Roxanna was the vice-president for the American Corporate Counsel Association located in Washington, D.C.

William Tatarchuk, BA, '83 LLB, of Edmonton, was recently appointed to the board of directors of Seair Inc.

Sandra Shaw (Horner), BEd, is part of a small, but active, Canadian social club in Perth, Australia. For details visit www.canadianclubofwa.com.

'81 David Prud'homme, PhD, of Edmonton, is a senior business officer with Western Economic Diversification. As a member of the department's official languages implementation team, David received the 2003 Head of the Public Service Award, the highest honour for a public servant.

'82 Gary Purcell, BSc(Eng), of Calgary, was recently appointed vice-president of business development of Deer Creek Energy Limited, an oil sands development company.

'83 Janet Cardiff, MVA, of Lethbridge, Alberta, was recently named one of Canada's best in fine arts by Canada's *Time* magazine.

'84 Leonard Boon, BCom, of Edmonton, recently became a partner at PricewaterhouseCoopers.

Tammy Wells (Platzke), BSc(HEC), of St. Albert, Alberta, recently has completed taping 26 episodes of a new television sewing series, *Thimbles and Threads*, which airs across Canada on HGTV and LCT, and in Alberta on ACCESS and in B.C. on *The Knowledge Network*. Tammy, the former fashion editor of the *Edmonton Sun*, invites other clothing and textile grads to share their sewing tips with her at stwells@telusplanet.net.

Shine a light on our

BEST

Nominate a worthy volunteer for the
Board of Governors'
Award of Distinction

WHO: Award of Distinction nominees exemplify the spirit of innovation, generosity and commitment upon which the University of Alberta was founded. We seek individuals or groups who have made exceptional contributions to link the University of Alberta with the local, provincial, national and/or international community. Awards of Distinction are given to alumni and non-alumni in three categories: Academic, Non-Academic and Community. **WHAT:** Nominees are recognized for volunteer activities which promote goodwill between the University and the broader community and enhance the University's reputation for excellence. Established in 1997 by the Board of Governors to acknowledge the many extraordinary people who touch the University, Award of Distinction recipients are now enshrined on the University's Roll of Honour at the Timms Centre for the Arts. **WHY:** By nominating someone, you demonstrate your appreciation for their efforts, highlight the innovative individuals in your department or community and provide inspirational role models for the University's next generation of leaders. **HOW:** The complete nomination form with criteria and eligibility information is available online at www.ualberta.ca/governors/distinction.htm or from the office of the Board of Governors at 492-4951.



Nomination Deadline is May 3, 2004



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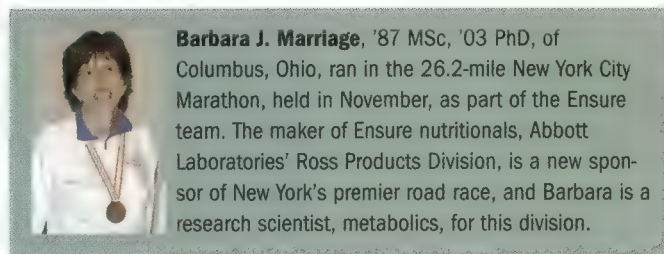
Lubomyr Lucluk, PhD, of Kingston, Ontario, was recently named one of Canada's People of the Year for 2003 by *Korrespondent*, a Ukrainian newsmagazine. Lubomyr is the director of research for the Ukrainian Canadian Civil Liberties.

'85 Charlene Ripley, BA, of Calgary, was appointed vice-president and general counsel of Anadarko Petroleum Corporation in November 2003.

'87 William Cawston, MBA, of Calgary, was recently appointed vice-president, engineering, of Kelso Energy Inc.

'89 Wayne Goruk, BSc(Ag), recently opened up Owl Tree, a bed and breakfast on Salt Spring Island, BC. "This is a great place to visit and live. I'm enjoying the good life."

Timothy Hankewich, BMus, '91 MMus, is a finalist in the Asheville Symphony Orchestra's search for a conductor. Currently, Timothy is a resident conductor of the Kansas City Symphony.



Barbara J. Marriage, '87 MSc, '03 PhD, of Columbus, Ohio, ran in the 26.2-mile New York City Marathon, held in November, as part of the Ensure team. The maker of Ensure nutritionals, Abbott Laboratories' Ross Products Division, is a new sponsor of New York's premier road race, and Barbara is a research scientist, metabolics, for this division.

Sean McMaster, LLB, of Calgary, was recently appointed president of the general partner's board of TransCanada Power, L.P.

'90 Maureen Connolly, PhD was recently appointed director of the Brock Centre for Teaching, Learning, and Educational Technologies. A professor at Brock U, Maureen was a 2003 recipient of the 3M Teaching Fellowship, Canada's highest award for excellence in undergraduate teaching.

'91 Robert Noce, LLB, was recently engaged to Nicole Lachance, '98 BA, an articling law student with Pringle & Associates.

Robert, a lawyer at Duncan & Craig LLP, has put his name on the ballot and is running for the mayor's seat in Edmonton.

'92 Dhooleka Sarhad Raj, BA, had her book, *Where Are You From? Middle Class Migrants in the Modern World*, published by the U of California Press in September 2003. "Thankfully, it has generated quite a bit of interest, including an interview with *BBC London*." Dhooleka completed her term as a visiting scholar at Harvard U in June. Lucy Cavendish College, U of Cambridge, extended an offer of affiliation as a Fellow-Commoner until 2005, which

Dhooleka hopes will include visits to England. "So all continues to be exciting, would be interested to be in touch with old friends visiting the Washington D.C. area." Classmates can reach her at alien-raj@excite.com.

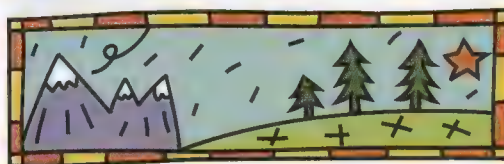
'93 Jacqueline Shan, PhD, co-founder of CV Technologies, was appointed CEO of the company in November 2003.

'94 Jason Flmrite, BSc(Eng), is principal of Aztec Engineering Inc., a firm based in Grande Prairie, Alberta, and he writes that he is also the proud father of a daughter, Shelby, who is almost three.

Alex Kor, BSc(Eng), is the section head of the piping engineering department for Chiyoda Corporation at its Malaysian office and resides in Kuala Lumpur with his family. "Old friends and classmates, e-mail me at alexkor@cmsb.po.my."

Aaron Martens, LLB, recently joined the partnership of Dunphy Best Blocksom LLP in Calgary.

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The personal information requested on this form is collected under the authority of Section 33(c) of the Alberta Freedom of Information and Protection of Privacy Act for the purpose of alumni and development programs at the University of Alberta. Questions concerning the collection, or disposal of this information should be directed to: Coordinator, Alumni Special Events, 6th Floor General Services Bldg. University of Alberta Edmonton AB T6G 2H1, ph: 780-492-0866.



off the beaten path

Culture Shock: Teaching in Taiwan during the SARS crisis

Within months of graduating from the University of Alberta, **Gina Collier**, '02 BA, found herself half a world away at the centre of the SARS outbreak. What began as a lucrative job to quickly pay off her student loan turned into an occasion that she calls the hardest and yet most amazing experience of her life.

After four years of term papers and final exams, the lure of world travel was too great for Collier to ignore, but like many recent graduates, she faced the burden of paying back a student loan. Accepting a one-year contract to teach English in Taiwan seemed like the perfect way to pay off the majority of her loan in only a year and still return home with unforgettable stories.

Collier never guessed just how unforgettable the experience would be.

Within a matter of weeks of the first cases in Hong Kong, the potentially fatal illness had been given the name SARS, and it had spread to Taiwan.

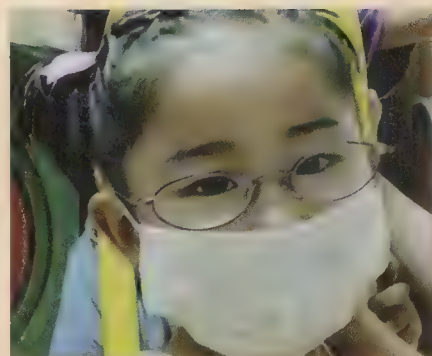
"At first I thought it was just a flu in Hong Kong," she recalls, "but I began to worry when SARS spread quickly throughout Taipei, forcing hospital after hospital into quarantine and the death toll began to rise."

Collier says she became particularly concerned when she learned that the first quarantined hospital in Taiwan was across the street from the gym she frequently used. While it was highly unlikely that she could have been infected, she says her close proximity to a world health scare was unnerving.

Before the outbreak, a typical working day saw Collier travel between two schools, teaching a kindergarten class

in the morning and an after-school class in the evening. Between classes, she would mark assignments, prep for the next lesson, and adjust to the culture shock of not knowing a single word of Mandarin.

The outbreak significantly changed life in Taiwan, however, and added new procedures to her busy teaching routine. What were originally meet-



could make an effort to stay away if you exhibited a fever. In fact, most businesses required you to have your temperature measured before you entered. If you had a fever, you would be turned away from entering stores ranging from Starbucks to the local grocery chain.

Despite the advice of some friends and relatives to return home early, Collier was determined to keep her spirits up and continue on.

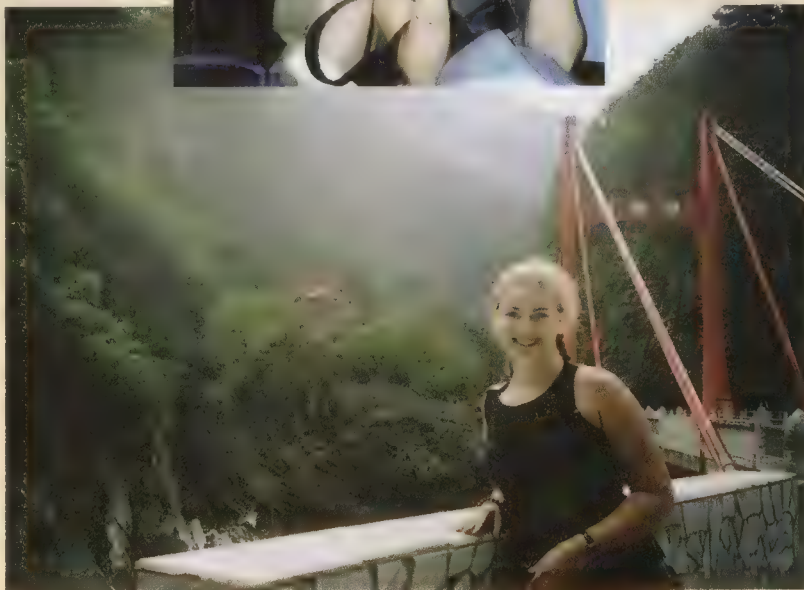
"I decided that I wouldn't be able to live with myself if I knew that I had run back home when I still had a job to do in Taiwan, a contract with my company to fulfill, and a student loan back home to pay off."

A few months later, the SARS outbreak had been contained, with a reported 8,098 people infected and 774 people worldwide having died of the syndrome. Collier and the company she worked for received a special visit from the president of Taiwan

thanking them for staying and for their dedication to teaching.

"I'll never regret the decision I made," she claims. "The trip made me realize that I could go anywhere—it didn't matter if I hadn't done it before. You have to have a strong personality, but the Taiwanese are amazing. A trip like this changes your life."

—Steve Lillebuen



Face masks became standard issue for kindergarten students (top) and for riding public transportation (middle) during the SARS outbreak. In more relaxed times (bottom) Collier visited the "Marble City" in Taroko Gorge on the eastern coast of Taiwan.

and-greet mornings with the parents became an ordeal of wearing surgical masks and taking temperatures to help stop the spread of infection. Because fever is one of the symptoms of SARS, taking temperatures and writing them on a sticker on the children's shirts became a code of honour. It meant that everyone could tell what your temperature was and



Kevin Visscher, BEd, has been teaching for 10 years at a private high school in Surrey, B.C. He teaches Geography 12 and Science and is also the vice-principal. Kevin and his wife, Mary Joan, have three small children.

'95 Jeri-Mae Astolfi, BMus, is a pianist and faculty member at Henderson State U in Arkansas. She recently completed her doctoral studies at the U of Minnesota.

Tammy Komarnisky, BA, '97 BEd, of Edmonton, was recently honoured at with a Hetman award for her volunteer leadership work in the Ukrainian Canadian community. The Hetman awards are presented by the Alberta provincial Council Chapter of the Ukrainian Canadian Congress.

Elyne Quan, BA, is in the Big Apple. Elyne is working towards her MFA in dramatic writing at the Tisch School of the Arts at New York U. "It's a two-year program and I'll be graduating in 2005!"

'96 Ross Undershute, BEd, of Sherwood Park, Alberta, was recently appointed president and CEO of FAS Group of Companies.

'97 James Robinson, BA, is the executive director of Toronto's Downtown Young Business Improvement Area, working on behalf of the area's businesses and property owners to make the Downtown Young area safer, cleaner, and more inviting. He is proud to announce the launch of the organization's website at www.downtownyoung.com.

Take note. **Joel Kroeker**, '01 MA, is making waves—radio waves, that is—in the music industry. A singer, songwriter, and multi-instrumentalist, Joel recently signed with Universal Music Canada and True North Records. His new album, *Melodrama*, was released on 24 February. In March, it climbed to Number One on the charts at CKUA, Alberta's province-wide radio station. With a hit list of accomplishments, including being named best new recording artist of the year by the Alberta Recording Industry Association in 1999, Joel has shared the stage



with the Cowboy Junkies, and Colin James, and he performed on Randy Bachman's 2004 album, *Jazz Thing*. In addition to writing film scores and his own material, Joel co-writes songs for other artists. Toronto singer Patricia O'Callaghan recorded Joel's *Naked Beauty* as the title track of her recent album and Lee Aaron included several Joel co-writes on her recently released album, *Beautiful Things*. Currently, Vancouver-based Joel is on tour to promote *Melodrama*, and he played in Edmonton at the Sidetrack on 18 March.

'99 Nancy Boyko (Romanluk), BA(Des), of Edmonton, is working with Pangaea Systems Inc. as a graphic designer. "I have had an opportunity to travel abroad during the summer, visiting friends from the Netherlands that I met while attending the U of A, as well as attending a design conference in San Francisco." Nancy married Darryl Boyko in August 2003.

Richard Finlay, LLB, and his wife, Liane Finlay (Cleveland), '99 BA, and daughter, Kayla, recently returned to Edmonton from Calgary. Richard has joined the law firm of Kolthammer, Batchelor, Laidlaw LLP as an associate.

'00 Roxanne Cross, BSc, recently started graduate school at Clemson U, in South Carolina, where she had been working for the past 18 months. "If there is any way I can help out providing info about obtaining work/student Visas, U.S. school applications, anything relating to working or going to school in the U.S. please contact me." Roxanne can be reached at rockstr15@hotmail.com.

Jeff Ewasko, BPE, '01 BEd, of Sherwood Park, was recently signed by the Adirondack IceHawks of the United Hockey League to play defense.

Dylan Scammell, MBA, '97 BA, is currently a research postgrad in business studies at Trinity College Dublin, where he is also the president of the Graduate Students' Union. Dylan founded the TCD Backpackers Society and the Business Postgrads Association.



The U of A invites you to mark your calendar for
Reunion 2004:
September 30 – October 3, 2004.

Plan to attend the weekend's exciting
line-up of events, including

Alumni Pride Awards

Welcome Back Western Round Up

Faculty Open Houses and Events

Empey Lecture

Reunion Dinner and Dance

President's Breakfast



For more information, please visit
www.ualberta.ca/alumni/reunion

In Memoriam

The Alumni Association notes with sorrow the passing of the following graduates:

'31 **Beverly Wells Snyder**, BSc(Eng), of Calgary, in August '03

'33 **Margaret Ethel Bentley (Moore)**, BA, of Edmonton, in November '03

Ewald Oscar Lilge, BSc(Eng), '37 MSc, of Edmonton, in December '03

'34 **Margaret Marion L. Campbell (Fraser)**, BA, of Edmonton, in December '03

'36 **John Wright Hackney**, BA, of Senneville, Quebec, in December '03

'38 **Elna Marie Clarke (Skarin)**, BA, of Sidney, B.C., in January '04

Freda Alice Hurst (McKinnon), BA, of Ottawa, in November '03

Herbert E. Miller, BSc, '41 MA, '45 MEd, of Calgary, in December '03

'39 **Mary Elizabeth McBride (Farnalls)**, BSc(HEc), of Halkirk, Alberta, in November '03

John Gillespie Slipp, BSc(Eng), of Peterborough, Ontario, in December '03

'40 **Margaret Annie Rogne (Wyld)**, Dip(Nu), of Peace River, Alberta, in January '04

'41 **Ralph Francis Bailey**, BSc(Eng), of Calgary, in December '03

Edwin F. Marken, Dip(Ed), of Camrose, Alberta, in September '03

'42 **Shirley Bernice Anderson (Campbell)**, BCom, of Calgary, in December '03

Ross Philip Lane, Dip(Pharm), of Burnaby, B.C., in December '03

Herschel Alun Lloyd, BA, '43 MD, of Edmonton, in January '04

Demitro Melnyk, BSc, '43 MD, of St. Catharines, Ontario, in November '03

'43 **Patricia Spencer Batchelor (Firth)**, BSc(HEc), of Qualicum Beach, B.C., in January '04

Mary Corns (Hastings), Dip(Nu), of Victoria, in December '03

'44 **Claude Francis Matthews**, Dip(Pharm), of Calgary, in January '04

Harold Thomas Rappel, BSc(Eng), of Regina, in November '03

'46 **Mary McCabe Brown**, BA, of Calgary, in January '04

'47 **Caroline Bertha Fraser**, BA, of Calgary, in January '04

James Aloysius Harquail, BSc(Eng), of North York, Ontario, in October '03

Harry Stevenson Simpson, BSc(Eng), of Calgary, in November '03

Vivian A. Templeton (Suey), BSc, of Calgary, in November '03

Allen Stewart Wright, BSc, '49 MD, of Calgary, in October '03

'48 **Mary Noreen Ayer**, BA, of Calgary, in January '04

Rhona Roberta Bilsland (Corbett), BA, of Edmonton, in September '03

'49 **John David Bracco**, BEd, '56 LLB, of Harvie Heights, Alberta, in January '04

Gregory Byrne Fulton, BCom, of North York, Ontario, in December '03

G. Kentner Gooderham, BA, '52 Dip(Ed), '54 BEd, of Elgin, Ontario, in October '03

Margaret Jeanne Price (Blundell), BSc, of Calgary, in January '04

Peter McLaren Roberts, BEd, '51 MA, of Ottawa, in November '03

Arthur D. G. Yates, BEd, '63 BA, of Edmonton, in December '03

'50 **Daphne Agnes Greenaway**, Dip(Nu), '51 BSc(Nu), of Edmonton, in December '03

Gordon Leroy McMurray, DDS, of Qualicum Beach, B.C., in October '03

George Stefanick, BSc(Eng), of Edmonton, in November '03

'51 **Raymond Albert Bedard**, BSc, of Edmonton, in January '04

John Robert Maland, BEd, of Devon, Alberta, in September '03

Merle Gordon Summers, BSc(Ag), of Calgary, in November '03

'53 **Betty Irene Leadbeater**, BCom, '72 Dip(Ed), '78 BEd, of Edmonton, in December '03

John Gerard Rivet, Dip(Ed), '54 BEd, '79 MEd, of Edmonton, in December '03

'55 **George Daniel Carr**, Dip(Ed), of Edmonton, in November '03

Robert James Jones, BA, '62 BEd, of Calgary, in January '04

Joyce Janet Maier, BSc(HEc), of Edmonton, in November '03

Lawrence Donald Sheppard, BSc, '56 MD, of Edmonton, in August '03

Edward Walter Smith, MD, of Saskatoon, in September '03

'56 **John Martin Hillerud**, BSc, '60 BEd, of Edmonton, in November '03

Eugene Wasyluk, BEd, '61 MEd, '73 PhD, of Edmonton, in September '03

'57 **Frances Elizabeth Ratai**, Dip(Ed), of Victoria, B.C., in December '03

Isabel Hazel Stadelbauer, BEd, of Calgary, in January '04

'58 **Lorna Joy Gunn (Hannochko)**, BA, '59 BEd, of Burnaby, B.C., in November '03

Janet Margaret Malmberg (Batcheller), Dip(Nu), '59 BSc(Nu), of Edmonton, in January '04

F. Neil Robarts, BCom, of St. Louis, Missouri, in December '03

'59 **Vivian Irene Moore (Tubb)**, BEd, of North Saanich, B.C., in January '04

'60 **Justine Mary Cryer (Dron)**, Dip(Nu), of Rockwood, Tennessee, in January '04

Laila Anna Laukas, BEd, of Edmonton, in November '03

John Nicholas Olynyk, BSc, '63 BEd, of Edmonton, in October '03

'61 **Vivian May Bullen**, Dip(Nu), of Calgary, in January '04

Glengarry Russell Jackson, BSc, '64 MSc, of Edmonton, in November '03

'62 **Harry Gordon Sherk**, BEd, '64 MEd, of Edmonton, in November '03

'63 **Rosalind Marjory MacKenzie**, MA, of Edmonton, in November '03

'64 **David Lawrence Dugle**, PhD, of Vegreville, Alberta, in September '03

John Cameron McInnis, BSc, '70 MD, of Nashville, in November '03

John Laurence Prostebby, BSc(Eng), of Edmonton, in January '04

'65 **Barbara Ann McNabb**, Dip(RehabMed), '83 BSc(PT), of Calgary, in January '04

'67 **G. Arthur Evoy**, BEd, of Outlook, Saskatchewan, in December '03

Ruth Ada Heslep, BEd, of Edmonton, in January '04

'68 **Rodney Edgar Drebert**, BPE, of Winfield, Alberta, in September '03

Henry Takao Takahashi, BEd, of Edmonton, in August '03

'69 **Om Prakash Gupta**, PhD, of Lloydminster, Alberta, in January '04

M. Aurelia E. Vangrud (Hahn), BEd, '70 Dip(Ed), '72 Dip(Ed), of Peace River, Alberta, in July '03

'70 **Marion Tadeusz Kulpa**, BA, '74 BCom, of Lethbridge, in December '03

Harvey Warren MacIntyre, BEd, of Lacombe, Alberta, in October '03

Douglas James McFarlane, BA, of Edmonton, in September '03

'71 **Joanne Doreen Kellock**, BA, of Edmonton, in November '03

Richard Edward Murdoch, BCom, of Edmonton, in December '03

'72 **Henry Harder**, BEd, of Edmonton, in November '03

'73 **Cynthia Jean Killips**, Dip(DentHyg), of Edmonton, in January '04

Lawrence Allan Klazek, BSc, '77 DDS, of Calgary, in August '03

Karol Ksiazek, Dip(Ed), of Lethbridge, in August '03

M. Volesh Shaikh, BSc(Eng), '84 MEng, of Edmonton, in September '03

'75 **H. Edward Jestin**, BCom, of Edmonton, in September '03

'76 **Season Lee**, BSc, of Port Coquitlam, B.C., in September '03

'79 **Liane Brenda Melnyk**, BA(RecAdmin), of Edmonton, in September '03

'81 **Robert Lindsay Miller**, BA, '84 BSc, of Victoria, in September '03

Thelma Johannes O'Neill, BMus, of Sherwood Park, Alberta, in June '03

'82 **Wilfrid John Kettle**, BCom, of Victoria, in December '03

'84 **Stella Evelyn Von Saldern**, BEd, of Edmonton, in January '04

'86 **Evelyn Janette Gusdal**, Dip(Ed), of Winnipeg, in September '03

'87 **Chikara Obloma Imo**, BA, of Doha, Qatar, in January '04

'88 **Dorothy Sarah Keates**, BA, of Edmonton, in November '03

'91 **Cheryl Lynnette Chopoidal**, BA, of Edmonton, in December '03

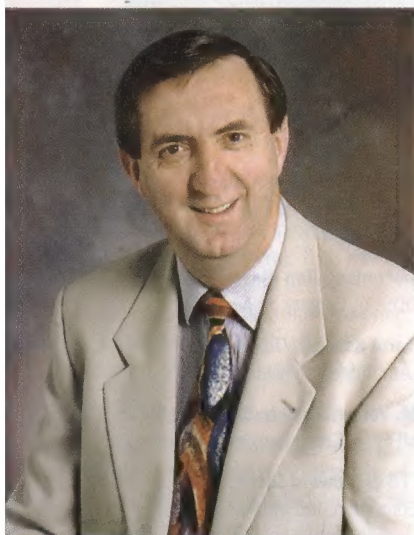
'93 **Suzanne Helen Noble**, LLB, of Burnaby, B.C., in January '04

'01 **Deborah Ann Folk**, BSc(Nu), of Edmonton, in January '04



Ready to meet new challenges

by Debbie Waldman



ABOUT

THOMAS MARRIE

Favourite reading:

Escapist literature. "I used to read a lot of Thomas Costain. Now I'm more into adventure. The last book I read was *Red Rabbit* by Tom Clancy."

Favourite music:

"Anything by Andrew Lloyd Webber. That guy is fantastic."

Hobbies:

Sailing and photography. "It's important that I maintain a balance in life. Both my hobbies get me outside a lot."

Personal heroes:

"The everyday person who meets adversity head-on and copes with it... I've seen a lot of courageous people whom I've admired over the course of what is getting to be a long medical career."

The Faculty of Medicine and Dentistry at the U of A may not be the biggest in Canada, but that's no reason it can't be the best, says Dr. Thomas Marrie, who will become the new dean of the faculty in July.

"Toronto, McGill, and UBC are much bigger than us in terms of faculty, but the playing field is level in terms of education," Marrie says. "The raw product is the student that comes in, and our students are just as bright as the ones who go to the bigger schools."

Marrie also has high praise for the professors whose breakthroughs in such areas as islet cell transplants and pediatric cardiac surgery have helped raise the University's profile around the world.

"What makes all these things go is the kind of people you have to work with," he says. "We have a good combination of good departments and outstanding faculty members."

Under Dean Lorne Tyrrell, says Marrie, the faculty has blossomed. "This is a wonderful time to be in medicine and dentistry at the U of A. We have close to half a billion dollars worth of new construction: two new research buildings, the Alberta Heart Institute, a small building for gastroenterology, and a learning centre. The other piece that's not finalized yet is a new ambulatory care centre, so we will have a better infrastructure, probably, than any other medical school in the country."

Marrie is particularly enthusiastic about the partnership between the faculty and the Capital Health Authority. "The leaders of the Capital Health Authority are all committed to the academic mission of the medical school," he says. "They see it as enhancing service delivery, while my view is primarily from the education aspect—to produce new physicians for Alberta, and more research. But when you integrate them into an academic health sciences centre, we have a very powerful partnership, and that's the best basis for us going forward."

Partnerships and cooperation are high on Marrie's agenda. One of his goals is to promote integration between the faculty

and the rest of the University, and to foster more collaboration between the basic sciences and clinical sciences. Marrie says this collaboration is important "so we can bring the findings from the research lab to the patient as soon as possible."

It's a challenge, but one Marrie feels more than ready to meet. "What's so nice about taking over is that a lot of things have been accomplished," he says. "It's

often very difficult when things are going well to get to the next level, but that's the challenge. The next level, for us, is to have the best medical school in the country, and I think we're close."

Marrie is grateful for the support of Tyrrell, whom he has known for more than a quarter of a century. In fact,

Tyrrell had been trying to lure Marrie to the prairies for years before getting the answer he'd been hoping for five years ago. That's when Marrie accepted the offer to become a professor in and chair of the Department of Medicine.

"It was more a question of timing than anything else," says Marrie, whose four children were either working or in university when he and his wife, Kathleen, moved to Edmonton.

With the exception of two years Marrie spent in Manitoba doing a sub-specialty in infectious diseases early in his career, he had never lived outside the Maritimes. Born and raised in Newfoundland, he'd practised medicine there for three years after graduating from Dalhousie University in Halifax. After returning east from Manitoba, he settled in Halifax, where he taught, practised, and did research for 22 years.

Marrie and his wife plan to retire in Nova Scotia, where they have a boat and a house by the ocean. But he's truly enthusiastic about his current surroundings. "Canada is such a unique country," he says. "No matter where you go there are things that are great about the place you're in. One of the down sides of a maritime climate are gray days. I miss the salt water, but the blue skies here are fantastic." ■

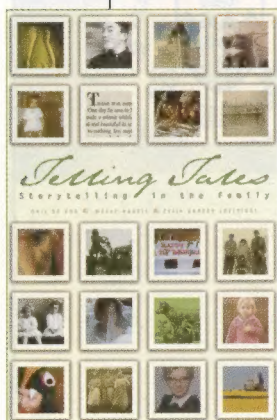
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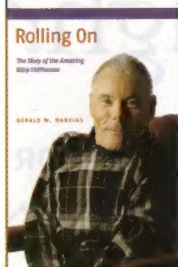
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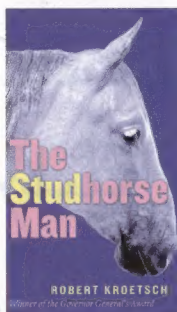
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